Group 7.—PAPER AND ALLIED PRODUCTS

Description of the group of industries.—This group of industries embraces establishments engaged primarily in the manufacture of pulp (wood and other fiber), of paper and paperboard, and in the further manufacture of paper and paperboard into commodities such as boxes, bags, etc. (designated as "converted paper products"), and also covers the manufacture of pulp goods (pressed and molded).

The manufacture of converted paper products is carried on to a considerable extent in paper mills, but the establishments engaged solely or primarily in this line of manufacture purchase their principal materials paper and paperboard—from paper mills. Thus, a large amount of duplication in the figures for cost of materials and value of products results from the fact that products of pulp mills are used as materials in paper mills and, to a large extent, the products of paper mills are used as materials in converting plants. which purchase their principal materials from the paper mills. This should be borne in mind when making use of these figures.

The following individual industries make up the paper and allied products group in the Census of Manufactures for 1939: Pulp mills; Paper and paperboard mills: Coated and glazed paper: Envelopes; Paper bags, except those made in paper mills; Fiber cans, tubes, and similar products: Paperboard containers and boxes not elsewhere classified; Die-cut paper and paperboard, and converted cardboard; Wallpaper; Converted paper products not elsewhere classified; and Pulp goods (pressed, molded).

SUMMARY FOR GROUP 7.—PAPER AND ALLIED PRODUCTS: 1899 TO 1939

CENSUS YEAR	Number of establish- ments	Wage earners (average for the year)	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work 1	Value of products	Value added by manufac- ture ²	Horsepower of prime movers
1939 1937 3 1935 1931	3, 279 3, 084 2, 945 2, 697 2, 883	264, 716 266, 944 235, 665 196, 380 194, 581	\$309, 856, 579 310, 136, 540 235, 724, 527 172, 841, 982 214, 337, 492	\$1, 149, 666, 420 1, 213, 558, 936 887, 346, 049 654, 646, 541 758, 010, 033	\$2,019,568,217 2,076,425,001 1,523,186,440 1,172,742,984 1,357,582,014	\$869, 901, 797 862, 866, 065 635, 840, 391 518, 096, 443 599, 571, 981	2, 792, 900 (4) (5) (4) (4)
1929 1927 1925 1923 1921	3, 126 2, 807 2, 727 2, 685 2, 600	233, 393 224, 437 221, 502 219, 026 184, 756	287, 330, 792 272, 153, 670 263, 097, 369 250, 144, 000 202, 702, 800		1, 892, 251, 148 1, 677, 442, 980 1, 546, 814, 124 1, 456, 970, 076 1, 071, 800, 316	799, 529, 045 703, 634, 368 627, 156, 626 578, 206, 081 402, 730, 144	(5) (5) (5) (5) (4)
1919 1914 1909 1904 1899	2, 677 2, 452 2, 412 2, 098 1, 942	208, 115 166, 752 144, 790 121, 202 94, 266	212, 724, 291 88, 844, 233 67, 694, 260 51, 472, 423 35, 682, 226	720, 908, 211 314, 832, 826 242, 669, 896 162, 270, 553 107, 758, 784	1, 250, 445, 203 519, 689, 671 413, 126, 106 285, 796, 867 198, 183, 268	529, 536, 992 204, 856, 845 170, 456, 210 123, 526, 314 90, 424, 484	(δ) (δ) (δ) (δ) (δ)
SUBGROUPS, INDUSTRIES, AND CENSUS YEAR		SUMMAF	RY FOR SUBGROU	PS AND FOR IND	IVIDUAL INDUS	TRIES	
PULP MILLS AND PAPER AND PAPERBOARD MILLS: 1930. 1937. 1935. 1933. 1931.	832 841 779 781 848	137, 445 137, 803 126, 971 107, 298 107, 902	\$175, 687, 842 175, 650, 203 133, 601, 520 99, 194, 024 126, 885, 792	\$676, 997, 167 721, 101, 076 525, 498, 880 393, 663, 024 495, 088, 615	\$1,159,867,486 1,205,131,721 879,001,560 695,654,391 851,530,240	\$482, 870, 319 484, 030, 645 353, 502, 680 301, 991, 367 356, 441, 625	2, 745, 059 (4) (5) (1) (4)
1929	883	128, 049 123, 360 123, 842 120, 677 105, 294	173, 077, 781 162, 002, 097 160, 145, 932 151, 476, 693 127, 028, 767	723, 360, 707 615, 556, 264 605, 860, 286 573, 727, 153 445, 992, 351	1, 206, 114, 305 1, 029, 534, 967 971, 882, 320 907, 346, 992 667, 435, 847	482, 753, 598 413, 978, 703 366, 022, 034 333, 619, 839 221, 443, 496	2, 168, 012 1, 973, 563 1, 948, 871 1, 791, 569 (4)
1919 1914 1909 1904	729 718	113, 759 88, 457 75, 978 65, 964 49, 646	135, 690, 642 53, 245, 639 40, 804, 502 32, 019, 212 20, 746, 426	467, 482, 637 213, 181, 286 165, 442, 341 111, 251, 478 70, 530, 236	788, 059, 377 332, 147, 175 267, 656, 964 188, 715, 189 127, 326, 162	320, 576, 740 118, 965, 889 102, 214, 623 77, 463, 711 56, 795, 926	1, 613, 037 1, 484, 258 1, 264, 188 1, 090, 757 761, 858
PULF MILLS: 1939	194 194	26, 870 26, 994	33, 087, 514 33, 570, 346	144, 736, 646 153, 651, 946	226, 851, 822 247, 191, 957	82, 115, 176 93, 540, 011	(6) (4)
PAPER AND PAPERBOARD MILLS: 1939. 1937. CONVERTED PAPER PRODUCTS:	638 647	110, 575 110, 809	142, 600, 328 142, 079, 857	532, 260, 521 567, 449, 130	933, 015, 664 957, 939, 764	400, 755, 143 390, 490, 634	(6) (4)
CONVERTED PAPER PRODUCTS: 1939 1937 3	2, 433 2, 233	126, 570 128, 322	133, 350, 038 133, 613, 242	471, 146, 481 490, 983, 296	855, 874, 338 867, 251, 726	384, 727, 857 376, 268, 430	45, 771 (4)
Coated and glazed paper: 1939 1937 ³		7, 450 7, 240	9, 384, 260 8, 614, 339	53, 627, 595 51, 950, 312	84, 386, 593 78, 522, 258	30, 758, 998 26, 571, 946	9,097
Thursdoman.		8, 689 9, 511	9, 596, 844 10, 502, 815	24, 623, 014 25, 106, 584	50, 118, 134 51, 289, 922	25, 495, 120 26, 183, 338	3, 139
Havelopes: 1939 1937 Paper bags, except those made in paper mills: 1939 1937	119 107	11, 081 10, 360	10, 628, 601 9, 849, 896	53, 964, 442 53, 423, 931	85, 776, 374 82, 458, 263	31, 811, 932 29, 034, 332	2,837
1937 Fiber cans, tubes, and similar products: 1939 1937 ³ Paperboard containers and boxes not elsewhere classified:	116 100	6, 637 6, 104	6, 962, 529 6, 347, 064	13, 952, 397 14, 088, 679	33, 345, 334 32, 791, 570	19, 392, 937 18, 702, 891	6, 508 (4)
1939	1, 338 1, 226	62, 530 62, 620	63, 806, 013 63, 300, 758	213, 838, 608 231, 410, 226	382, 709, 595 394, 786, 932	168, 870, 987 163, 376, 706	(4) 8,35
Die-ent paper and paperboard, and converted cardboard: 1939 1937 *	121 115	4, 354 5, 046	5, 453, 990 6, 063, 598	16, 069, 422 15, 519, 540	33, 263, 907 34, 043, 743	17, 194, 485 18, 524, 203	(4) 2,84
Wallpaper: 1939 1937 Converted paper products not elsewhere classified:	46 42	4, 054 4, 543	5, 333, 246 5, 455, 289	11, 695, 922 11, 919, 748	24, 968, 843 26, 771, 995	13, 272, 921 14, 852, 247	4, 15 ⁽⁴⁾
Converted paper products not elsewhere classified: 1939	384 378	21, 775 22, 898	22, 184, 555 23, 479, 483	83, 375, 081 87, 564, 276	161, 305, 558 166, 587, 043	77, 930, 477 79, 022, 767	(4) 8,839
Pulp goods (pressed, molded): 1939	14 10	701 819	818, 699 873, 095	1, 522, 772 1, 474, 564	3, 826, 393 4, 041, 554	2, 303, 621 2, 566, 990	2, 07((4)

¹ Figures for years prior to 1935 do not include cost of contract work.
2 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.
3 Figures for 1937 have been revised for comparability with 1939 because of changes in classification, but no revision was made for prior years.
4 Not called for on schedule.
5 Data not available.
6 Because of the fact that in many cases a paper mill and a pulp mill are supplied with power from the same power plant, it is impossible to give separate figures for each industry.

CENSUS OF MANUFACTURES: 1939

GENERAL STATISTICS IN DETAIL, FOR THE GROUP AND BY INDUSTRIES: 1939 1

	Total for	Prof. of	700			CON	VERTED PA	PER PRODUC	CTS			
ITEM	the group	711	720	740	751	760	774	779	791	793	799	794
Number of establishments Proprietors and firm members	3, 279 839	194 2	638 19	140 17	169 41	119 19		1, 338 497	121 47		384 146	14 4
Persons reported by manufactur- ing industries, total	316, 121	30, 613	129, 217	9, 549	11, 161	12, 703	7, 790	75, 376	5, 670	4, 885	28, 301	856
Salaried officers of corpora- tions	4, 225	65	871	201	257	140	109	1, 763	181	. 81	539	18
Salaried employees Wage earners (average	26, 840	2, 314	11, 447	1, 040	826	896	655	5, 845	534	417	2, 791	78
for the year) Distribution Construction Other	264, 716 14, 808 4, 933 599	36 1, 120		766	8, 689 1, 289 75 25	509 67	8		4, 354 568 19 14	324	2, 983	701 62
Salaries and wages, total	\$434, 797, 264	\$40, 866, 247	\$188 , 3 16, 938	\$14, 898, 515	\$15, 826, 508	\$14, 933, 981	\$9, 657, 697	\$95, 873, 427	\$8, 860, 835	\$7, 654, 705	\$36, 827, 482	\$1, 080, 929
Salaried officers	29, 768, 469	635, 481	7, 611, 171	1, 609, 555	1, 621, 032	1, 332, 305	547, 706	10, 841, 974	1, 110, 723	578, 853	3, 793, 138	86, 531
Manufacturing: Salaries Wages Distribution Construction Other	55, 107, 927 309, 856, 579 31, 989, 743 6, 865, 547 1, 208, 999	33, 087, 514 134, 664 1, 258, 747	25, 369, 431 142, 600, 328 7, 898, 343 4, 403, 301 434, 364	9, 384, 260 1, 684, 387 110, 019	9, 596, 844 2, 652, 170 150, 088	10, 628, 601 1, 154, 183 129, 908	6, 962, 529 849, 550 16, 157	9, 930, 874 434, 830	5, 453, 990 1, 203, 263 27, 024	5, 333, 246	22, 184, 555 5, 571, 543	818, 699 72, 205
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	1, 149, 666, 420	144, 736, 646	532, 260, 521	53, 627, 595	24, 623, 014	53, 964, 442	13, 952, 397	213, 838, 608	16, 069, 422	11, 695, 922	83, 375, 081	1, 522, 772
Materials, supplies, and containers. Fuel. Purchased electric energy Contract work.	1 59 740 349	11, 402, 602 5, 518, 728	43, 506, 787 15, 387, 272	526, 662 610, 662	145, 235 339, 427	136, 331 346, 743	464, 672 247, 613	1, 511, 853 2, 013, 602	127, 706	246, 580 151, 796	799, 749	1, 225, 994 116, 158 180, 620
Value of productsValue added by manufacture	2, 019, 568, 217 869, 901, 797	226, 851, 822 82, 115, 176	933, 015, 664 400, 755, 143	84, 386, 593 30, 758, 998	50, 118, 134 25, 495, 120	85, 776, 374 31, 811, 932	33, 345, 334 19, 392, 937	382, 709, 595 168, 870, 987	33, 263, 907 17, 194, 485	24, 968, 843 13, 272, 921	161, 305, 558 77, 930, 477	3, 826, 393 2, 303, 621

¹ The number at the head of each column represents the following industries: 711, Pulp mills; 720, Paper and paperboard mills; 740, Coated and glazed paper; 751, Envelopes; 760, Paper bags, except those made in paper mills; 774, Fiber cans, tubes, and similar products; 779, Paperboard containers and boxes not elsewhere classified; 791, Die-cut paper and paperboard, and converted cardboard; 793, Wallpaper; 799, Converted paper products not elsewhere classified; 794, Pulp goods (pressed, molded).

PULP MILLS

[A preliminary report for this industry was issued October 24, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments engaged primarily in the manufacture of pulp from wood and other fibers, such as rags, cotton linters, straw, etc.

Annual pulpwood-consumption and wood-pulp-production statistics.—In addition to the biennial census statistics, tables 5, 6, 7, and 9 give figures based on data collected in the special canvass covering pulpwood consumption and wood-pulp production in the year 1938.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1927 TO 1939

CENSUS YEAR	Number of establish- ments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work 3	Value of products	Value added by manufac- ture ⁴	Horsepower of prime movers ⁵
1939	194 194 188 181 198 198 219	26, 870 26, 994 23, 627 20, 074 20, 219 24, 729 24, 794	\$33, 087, 514 33, 570, 346 23, 401, 212 18, 103, 342 22, 843, 982 32, 679, 407 31, 527, 358	\$144, 736, 646 153, 651, 946 96, 178, 418 81, 896, 058 110, 668, 220 148, 752, 729 151, 325, 425	\$226, 851, 822 247, 191, 957 167, 208, 261 134, 691, 766 166, 559, 043 238, 928, 279 218, 198, 201	\$82, 115, 176 93, 540, 011 71, 029, 843 52, 795, 708 55, 890, 823 90, 175, 550 66, 872, 776	(5)

See General Explanations—Definition of establishment.
 See General Explanations—Wage earners and wages.
 Figures for years prior to 1935 do not include cost of contract work.
 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.
 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.
 I3ecause of the fact that in many cases a paper mill and a pulp mill under common ownership are supplied with power from the same power plant, it is impossible to separate figures for each industry. For horsepower of prime movers see combined figures, table 1 of the report for "Paper and paperboard mills," p. 041.
 Prior to the year 1927, "Faper and wood pulp" was reported as a single industry classification.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See General Explanations—Disclosure of data for individual establishments]

ITEM	United States	Florida	Louisiana	Maine	Michigan	Minnesota	New York	North Carolina
Number of establishments 1		5	7	21	10	7	35 1	4
Persons reported by manufacturing establishments, total 2	30, 613	1, 463	1, 959	3, 335	993	1, 068	1, 827	1, 406
Salaried officers of corporations 2	65		7	5	6	1	9	5
M anufacturing: Salaried employees 2 Wage earners (average for the year) 3	2, 314 26, 870	109 1, 144	157 1, 787	228 3, 048	904	71 984	131 1, 678 1	127 1, 077 7
Distribution Construction Other	30	206 4	8	54	29 10	12	8	155 35
Salaries and wages, total 2	\$40, 866, 247	\$1, 534, 882	\$2, 475, 607	\$4, 369, 825	\$1, 197, 674	\$1, 303, 779	\$2, 178, 065	\$2, 052, 845
Salaried officers 2	635, 481		94, 760	34, 612	25, 932	12, 540	37,016	89, 600
Manufacturing: Salaries 2. Wages	5, 243, 830 33, 087, 514	175, 836 1, 271, 007	273, 563 2, 072, 656	567, 230 3, 701, 009	96, 322 1, 028, 233	172, 374 1, 110, 828	264, 312 1, 862, 363 5, 000	270, 434 1, 402, 723 10, 855
Distribution Construction Other	134, 664 1, 258, 747 506, 011	81, 761 6, 278	34, 628	66, 974	29, 263 17, 924	8, 037	9, 374	222, 358 56, 875
Cost of materials, supplies, containers, fuel, purchased	144, 736, 646	5, 152, 352	8, 549, 034	18, 490, 831	4, 792, 732	2, 953, 303	15, 011, 264	3, 473, 619
Materials, supplies, and containersFuel Purchased electric energy.	127, 768, 914 11, 402, 602 5, 518, 728	4, 601, 655 530, 202 20, 495	7, 850, 514 522, 161 176, 359	15, 991, 970 1, 149, 745 1, 349, 116	4, 291, 372 331, 649 123, 309 46, 402	2, 283, 594 566, 738 102, 971	13, 354, 720 858, 036 798, 508	2, 997, 844 322, 949 152, 826
Contract work Value of products. Value added by manufacture 4.	226, 851, 822 82, 115, 176	9, 145, 526 3, 993, 174	13; 816, 560 5, 267, 526	25, 370, 932 6, 880, 101	7, 085, 796 2, 293, 064	5, 816, 142 2, 862, 839	18, 982, 363 3, 971, 099	7, 099, 931 3, 626, 312

See footnotes at end of table.

CENSUS OF MANUFACTURES: 1939

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Oregon	Pennsylvania	Tennessee	Vermont	Virginia	Washington	Wisconsin	Other States
Number of establishments ¹ Proprietors and firm members.	7	9	6	3	9	19	28	24 1
Persons reported by manufacturing establishments, total 2	1, 045	1, 469	855	73	2, 145	4, 481	3, 121	5, 373
Salaried officers of corporations 2	. 2	4	6		5	8	5	2
Manufacturing: Salaried employees ² Wage earners (average for the year) ³ Distribution	67 934	1, 271	78 747	5 68	148 1,888	506 3, 850	238 2,838	324 4, 652
ConstructionOther	37 5	42 70	24		94 10	34 68	37	388 6
Salaries and wages, total 2	\$1, 380, 023	\$2, 153, 792	\$1,085,789	\$76,088	\$2, 719, 697	\$7, 701, 623	\$4, 304, 184	\$6, 332, 374
Salaried officers 2	10, 098	77, 840	62, 052		75, 500	62, 779	39, 268	13, 484
Manufacturing: Salaries 2. Wages. Distribution.	143, 282 1, 147, 156	177, 175 1, 571, 422 2, 830	191, 951 806, 974	7, 300 68, 788	316, 113 2, 124, 283	1, 323, 035 5, 956, 883 68, 447	542, 609 3, 642, 634 11, 205	722, 294 5, 320, 555 1, 699
Construction Other.	71, 921 7, 566	114, 198 210, 327	24, 812		187, 897 15, 904	111, 391 179, 088	66, 668 1, 800	264, 093 10, 249
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	3, 613, 261	6, 799, 847	4, 107, 606	189, 976	9, 935, 603	20, 219, 364	18, 030, 499	23, 417, 355
Materials, supplies, and containers. Fuel. Purchased electric energy. Contract work	3, 084, 595 217, 951 310, 715	5, 970, 078 726, 823 102, 946	3, 684, 384 300, 123 123, 099	181, 981 2, 404 5, 591	8, 787, 822 1, 111, 490 36, 291	18, 179, 766 1, 175, 454 864, 144	16, 087, 516 1, 284, 052 658, 931	20, 421, 103 2, 302, 825 693, 427
Value of products	6, 344, 087 2, 730, 826	9, 436, 299 2, 636, 452	7, 257, 350 3, 149, 744	307, 802 117, 826	17, 072, 846 7, 137, 243	37, 288, 183 17, 068, 819	27, 457, 953 9, 427, 454	34, 370, 052 10, 952, 697

wante of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See General Explanations—value added by manufacture.

⁶ Alabama, 3 establishments; Arkansas ,2; California, 1; Georgia, 2; Maryland, 1; Massachusetts, 2; Mississippi, 2; Missouri, 1; New Hampshire, 4; Ohio, 2; South Carolina. 3; Texas, 1.

TABLE 3.-VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

	1939	1937	1929
Pulp Mills industry, all products, total value	\$226, 851, 822	\$247, 191, 957	\$238, 928, 279
Pulp made in this industry	222, 812, 085 1 3, 277, 284 2 762, 453	242, 443, 451 4, 182, 658 565, 848	234, 759, 420 } 4, 168, 859
Pulp (wood and other fiber), aggregate value	222, 812, 085	242, 443, 451	234, 759, 420
Wood pulpOther pulp 3	209, 061, 107 13, 750, 978	225, 573, 125 16, 870, 326	223, 178, 096 11, 581, 324

Principally value of pulp purchased in unbleached condition and later bleached.
 Principally value of chemicals.
 Principally pulp made from cottonseed-pulp fiber, cotton linters, rags, reclaimed paper, and straw.

¹ See GENERAL EXPLANATIONS—Definition of establishment. The 194 mills reporting for 1939 include 8 that manufactured pulp from materials other than wood.
2 See GENERAL EXPLANATIONS—Persons engaged—general classification.
3 See GENERAL EXPLANATIONS—Wage carners and wages.
4 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by purchased.

Table 4.—PULP PRODUCTION, BY PROCESS, FOR CONSUMPTION AND FOR SALE, BY QUANTITY AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929

4	19	939	19	937	19	29
PROCESS	Quantity (tons, 2,000 pounds)	Value (f. o. b. mill)	Quantity (tons, 2,000 pounds)	Value (f. o. b. mill)	Quantity (tons, 2,000 pounds)	Value (f. o. b. mill)
Pulp (wood and other fiber), aggregate	7, 153, 478	\$222, 812, 085	6, 713, 576	\$242, 443, 451	4, 937, 235	\$234, 759, 420
For consumption 1 For sale	5, 754, 388 1, 399, 090	157, 602, 553 65, 209, 532	5, 331, 513 1, 382, 063	160, 029, 874 82, 413, 577	4, 167, 189 770, 046	183, 255, 593 51, 503, 827
Wood pulp, total	6, 993, 334	209, 061, 107	6, 572, 918	225, 573, 125	4, 862, 885	223, 178, 096
For consumption 1For sale	5, 692, 460 1, 300, 874	154, 501, 936 54, 559, 171	5, 276, 082 1, 296, 836	157, 046, 862 68, 526, 263	4, 121, 955 740, 930	177, 091, 587 46, 086, 509
Mechanical, not steamed, total	1, 342, 643	25, 379, 398	1, 513, 047	28, 281, 135	1, 474, 415	40, 617, 139
For consumption 1 For sale.	1, 327, 561 15, 082	25, 015, 280 364, 118	1,481,804 31,243	27, 493, 472 787, 663	1, 447, 135 27, 280	39, 763, 417 853, 722
Mechanical, steamed, total	102, 232	2, 330, 772	87, 620	2, 034, 116	163, 238	6, 605, 759
For consumption 1.	86, 192 16, 040	1, 832, 867 497, 905	} (2)	(2)	{ 158, 014 5, 224	6, 446, 183 159, 576
Sulphite fiber, unbleached, total	729, 203	24, 736, 494	791, 575	30, 718, 426	841, 558	40, 812, 205
For consumption ¹ For sale	489, 645 239, 558	16, 970, 281 7, 766, 213	546, 995 244, 580	20, 567, 545 10, 150, 881	678, 794 162, 764	32, 979, 824 7, 832, 381
Sulphite fiber, bleached, total 3	1, 217, 249	61, 307, 367	1, 348, 669	79, 201, 689	839, 953	62, 152, 903
For consumption ¹ For sale	672, 345 544, 904	32, 067, 649 29, 239, 718	657, 367 691, 302	35, 385, 100 43, 816, 589	549, 685 290, 268	37, 719, 011 24, 433, 892
Sulphate fiber, unbleached, total	2, 538, 204	55, 242, 263	1, 923, 937	51, 096, 623)	
For consumption ¹ For sale	2, 291, 664 246, 540	48, 634, 135 6, 608, 128	1, 776, 832 147, 105	45, 700, 216 5, 396, 407	918, 084	4 37, 173, 860
Sulphate fiber, bleached, total	424, 453	17, 697, 206	215, 150	8, 341, 113	1.0,001	01, 210, 000
For consumption 1For sale	285, 188 139, 265	11, 828, 213 5, 868, 993	} (2)	(2)	/	
Soda fiber, bleached, total	441, 565	19, 710, 156	⁵ 507, 548	§ 23, 465, 719	⁵ 520, 729	⁸ 34, 064, 784
For consumption 1 For sale	358, 482 83, 083	15, 954, 500 3, 755, 656	382, 619 124, 929	17, 194, 856 6, 270, 863	397, 731 122, 998	26, 156, 655 7, 908, 129
Semichemical and other wood pulp, for consumption, and for sale	151, 658	2, 105, 267	132, 521	1, 748, 316	40, 481	797, 645
Screenings, mechanical and chemical, total	46, 127	552, 184	52, 851	685, 988	64. 427	953, 801
For consumption ¹ For sale	31, 351 7 14, 776	351, 797 7 200, 387	} (2)	(2)	{ 48, 234 16, 193	665, 042 288, 759
Other pulp, total 8	160, 144	13, 750, 978	140, 658	16, 870, 326	74, 350	11, 581, 324
For consumption ¹	61, 928 98, 216	3, 100, 617 10, 650, 361	55, 431 85, 227	2, 983, 012 13, 887, 314	45, 234 29, 116	6, 164, 006 5, 417, 318

¹ Figures for "consumption" refer to wood pulp made and consumed in the same plants or transferred to and consumed in other plants operated by the same companies.

² Withheld to avoid disclosing figures reported by individual establishments.

³ Sulphite fiber, bleached:

KIND	19	39	19	37	1929		
NIAD	Tons	Value	Tons	Value	Tons	Value	
Superpurified, rayon, and special chemical grades*Other bleached	193, 420 1, 023, 829	\$12, 567, 963 48, 739, 404	353, 640 995, 029	\$23, 871, 039 55, 330, 650	839, 953	\$62, 152, 903	

^{*}Combined for 1939 and 1937 to avoid disclosing figures reported by individual establishments.

^{*}Not reported separately.

Unbleached and bleached.

Ocmbined to avoid disclosing figures reported by individual establishments for 1939. For 1937: Mechanical, 9,674 tons, valued at \$69,667; chemical, 43,177 tons, valued at \$616,321. 1929: Mechanical, 11,459 tons, valued at \$144,718; chemical, 52,968 tons, valued at \$809,083.

Chemical only.

Principally pulp made from cottonseed-hull fiber, cotton linters, rags, reclaimed paper, and straw.

TABLE 5.—PULPWOOD CONSUMPTION AND WOOD-PULP PRODUCTION—QUANTITY, BY PROCESS OF MANU-FACTURE, FOR THE UNITED STATES: 1939, 1938, 1937, AND 1929

	1939		19	1938		1937		29 .
	Pulpwood consumption	Wood-pulp production	Pulpwood consumption	Wood-pulp production	Pulpwood consumption	Wood-pulp production	Pulpwood consumption	Wood-pulp production
Total	Cords 10, 816, 466	Short tons 6, 993, 334	Cords 9, 193, 991	Short tons 5, 933, 560	Cords 10, 393, 800	Short tons 6, 572, 918	Cords 7, 645, 011	Short tons 4,862,885
Mechanical. Sulphite. Sulphate Soda. Semichemical and other wood pulp. Screenings, mechanical and chemical 1	1, 315, 727 3, 689, 420 4, 859, 020 764, 309 187, 990	1, 444, 875 1, 946, 452 2, 962, 657 441, 565 151, 658 46, 127	1, 219, 306 3, 090, 046 4, 025, 540 718, 172 140, 927	1, 333, 308 1, 606, 476 2, 443, 051 395, 307 118, 544 36, 874	1, 479, 502 4, 318, 029 3, 561, 781 892, 804 141, 684	1, 600, 667 2, 140, 244 2, 139, 087 507, 548 132, 521 52, 851	1, 559, 788 3, 420, 646 1, 701, 359 925, 371 37, 847	1, 637, 653 1, 681, 511 918, 084 520, 720 40, 481 64, 427

¹ Combined to avoid disclosing figures reported by individual establishments for 1939. For 1938, mechanical, 4,215 tons; chemical, 32,659 tons. For 1937, mechanical, 9,674 tons; chemical, 43,177 tons. For 1929, mechanical, 11,459 tons; chemical, 52,968 tons.

Table 6.—WOOD-PULP PRODUCTION—AVERAGE VALUE PER TON, FOR THE UNITED STATES: 1939, 1938, 1937, AND 1929

	1939	1938	1937	1929
Mechanical: Not steamed	\$18.90	\$18.40	\$18.69	\$97 EE
Steamed	22.80	17. 95	23. 22	\$27.55 40.40
Sulphite: Unbleached	33, 92	35.40	38.81	48 40
Bleached, total	50.37	56. 51	58.73	48. 49 73. 99
Superpurified, rayon, and special chemical grades. Other bleached	64. 98 47. 61	1 80. 41 49. 49	67. 50 55. 61	(2) (2)
Sulphate: Unbleached	07.70			
Bleached	21. 76 41. 69	21, 45 37, 91	26. 56 38. 77	} 40.49
Soda, bleached	44.64	45, 69	³ 46, 23	3 65, 41
Soda, bleached Semichemical and other wood pulp	13.88	14.15	13. 19	19.70

Superpurified, \$73.20; rayon and special chemical grades, \$84.09.
 Not called for on schedule.
 "Unbleached" and "bleached."
 Semichemical only.

TABLE 7.—PULPWOOD CONSUMPTION, BY QUANTITY AND COST, AND BY KIND OF WOOD, FOR THE UNITED STATES: 1939, 1938, 1937, AND 1929

KIND OF WOOD	1939		1938		1937		19	29
MIND OF WOOD	Cords	Cost	Cords	Cost	Cords	Cost	Cords	Cost
Total	10, 816, 466	\$84, 538, 835	9, 193, 991	\$74, 433, 181	10, 393, 800	\$82, 884, 799	7, 645, 011	\$100,054,13
Yellow pine, Southern	3, 834, 644 1, 567, 643 906, 806 1 2, 218, 678	20, 126, 230 18, 419, 481 12, 575, 102 1 15, 147, 529	3, 261, 404 1, 447, 457 832, 295	17, 570, 346 17, 249, 767 11, 822, 410 11, 337, 307	2, 658, 949 2, 010, 720 826, 528	14, 498, 259 21, 980, 698 10, 743, 365	1, 036, 272 2, 074, 267 1, 029, 913	
Iemlock, domestic and imported ack pine, domestic and imported oplar: Domestic Imported	1 359, 755	1 15, 147, 529 1 3, 355, 291 3, 179, 101 1, 461, 648	1, 714, 424 1 258, 570 324, 868 95, 758	11, 337, 307 12, 460, 539 2, 947, 023 1, 111, 224	2, 302, 012 300, 786 441, 401 90, 365	16, 029, 747 2, 863, 084 3, 899, 639 960, 930	1, 324, 549 2 195, 577 329, 466	
Balsam fir: Domestic Domestic Imported Seech, birch, and maple, domestic and imported White fir, domestic Ottonwood Red gum 'amarack (larch) ther woods?	283, 506 74, 705 1 241, 039 159, 428 64, 330	2, 891, 304 891, 287 1 2, 318, 285 953, 343 428, 119 294, 009 64, 620 1, 732, 098 701, 388	321, 984 65, 392 168, 796 98, 878 40, 996 447, 967 9, 937 274, 105 231, 160	3, 446, 131 731, 128 1, 667, 233 608, 238 257, 069 6 324, 086 80, 735 2, 006, 656 813, 289	320, 715 71, 447 2 257, 410 4 135, 384 64, 035 25, 967 8, 945 313, 745 566, 391	3, 269, 690 767, 243 2 2, 302, 084 4 769, 446 432, 366 165, 750 84, 057 2, 115, 411 2, 003, 078	157, 829 317, 552 45, 412 2 76, 950 111, 054 (*) * 39, 685 51, 836 5293, 365 561, 285	(3)

 $^{^1}$ Combined to avoid disclosing figures reported by individual establishments.

2 Domestic only, 2 Domestic only, 3 Data not available. 4 Domestic and imported. 5 "Cottonwood" included with "Other woods,"

⁶ Reported as "Gum."

7 For 1939, domestic chestnut, Douglas fir, yellow poplar, oak, black gum, red fir, and ash, and domestic and imported miscellaneous hard woods not reported separately. For earlier years, see published reports.

Table 8.—Pulpwood Consumption, by Quantity and Cost, by Kind of Wood, and by Condition in Which Purchased, for the United States: 1939

KIND OF WOOD	TO	ral	RO	UGH		ED AND SSED
	Cords	Cost	Cords	Cost	Cords	Cost
Total	10, 816, 466	\$84,538,835	6, 208, 462	\$38,376,264	4,608,004	\$46,162,571
Yellow pine, Southern Spruce:	3, 834, 644	20, 126, 230	3, 432, 220	17, 127, 519	1402, 424	12, 998, 711
Domestic Imported Hemlock, domestic	1, 567, 643 906, 806	18, 419, 481 12, 575, 102	562, 149 196, 638	6, 101, 313 2, 447, 151	1 005 494 710, 168	12, 318, 168 10, 127, 951
and imported Jack pine, domestic and imported	² 2, 218, 678 ² 359, 755	215,147,529 23,355,291				6, 971, 408 12, 112, 138
Balsam: Domestic	283, 506 74, 705 159, 428 47, 370	891, 287 953, 343	} 107, 415 106, 278	913, 021 652, 734	250, 796	2, 869, 570 300, 609
Poplar: Domestic Imported Beech, birch, and maple, domestic	354, 125 123, 148	1, 461, 648	144 070	1, 205, 311	. 800 047	7, 978, 560
and imported Cottonwood Tamarack (larch) Other woods ³ Slabs and mill waste	2 241, 039 64, 330 8, 450 253, 825 319, 014	64,620 1,732,098		,		

Peeled only.

Table 9.—Pulpwood Consumption, by Quantity and Cost, for the United States: 1939, 1938, 1937, and 1929

YEAR	Number of cords	Cost (f. o. b. mill)	Average per cord
1939	10, 816, 466	\$84, 538, 835	\$7.82
	9, 193, 991	74, 433, 181	8.10
	10, 393, 800	82, 884, 799	7.97
	7, 645, 011	100, 054, 139	13.09

Table 10.—Pulpwood Consumption, by Quantity and Cost, and Wood-Pulp Production, by Quantity and Value, by States: 1939

,	wood c	ONSUMED	PULP PRODUCED		
STATE	Cords	Cost	Short tons	Value	
United States	10, 816, 466	\$84, 538, 835	6, 993, 334	\$209, 061, 107	
Northeastern and Central States,1	2, 601, 285	30, 050, 449	1, 907, 832	63, 721, 123	
Maine New York Penusylvania	1, 171, 677 568, 060 323, 026	12, 717, 826 7, 906, 850 4, 382, 432	941, 273 460, 652 193, 958	25, 268, 467 14, 946, 996 9, 287, 446	
Other Northeastern and Central States 2	538, 522	5, 043, 341	311, 949	14, 218, 214	

Table 10.—Pulpwood Consumption, by Quantity and Cost, and Wood-Pulp Production, by Quantity and Value, by States: 1939—Continued

	wood c	ONSUMED	PULP PRODUCED			
STATE	Cords	Cost	Short tons	Value		
Lake States, total	1, 658, 929	\$17, 490, 192	1, 016, 806	\$39, 255, 912		
Michigan Minnesota Wisconsin	308, 124 244, 657 1, 106, 148	3, 069, 510 2, 299, 023 12, 121, 659	200, 325 160, 665 655, 816	6, 817, 796 5, 409, 170 27, 028, 946		
Southern States, total	4, 220, 537	22, 343, 628	2, 654, 535	62, 517, 036		
Florida Louisiana North Carolina Virginia Other Southern States 4	689, 627 930, 071 340, 921 646, 417 1, 613, 501	3, 768, 994 4, 477, 437 2, 024, 989 3, 748, 071 8, 324, 137	449, 162 589, 672 179, 636 402, 929 1, 033, 136	9, 145, 526 13, 730, 082 7, 045, 509 11, 336, 858 21, 259, 061		
North Pacific States, total	2, 335, 715	14, 654, 566	1, 414, 161	43, 567, 036		
Oregon Washington	407, 969 1, 927, 746	2, 656, 654 11, 997, 912	288, 047 1, 126, 114	6, 344, 087 37, 222, 949		

Including Tennessee.
 Maryland, Massachusetts, New Hampshire, Ohio, Tennessee, Vermont.
 Not including Tennessee.
 Alabama, Arkansas, Georgia, Mississippi, South Carolina, Texas.

Table 11.—Equipment, by Kind, Number, and Capacity, for the United States: 1939, 1937, and 1929

		SHOR	T TONS
KIND	Number	Total rated capacity per 24 hours	Total rated yearly capacity, basis 310 days
Grinders for mechanical wood pulp: 1939	974	6, 848	2, 122, 880
	809	6, 973	2, 161, 630
	1, 161	7, 587	2, 351, 970
Digestors:	145	1, 814	562, 340
	156	1, 830	567, 300
	198	2, 037	631, 470
Sulphite fiber: 1939 1987 1920	359	8, 145	2, 524, 950
	356	7, 558	2, 342, 980
	385	6, 357	1, 970, 670
Sulphate fiber: 1939	268 223 113	10, 866 7, 852 2, 740	3, 368, 460 2, 434, 120 849, 400
Semichemical:	33	499	154, 690
1939-	85	983	304, 730
1937 ¹	40	477	147, 870
Other: 1939 1937 1920	(2) (2)	(2) (2)	266, 600 (²) (²)

Includes digestors for "Pulp, other than wood."
 Not reported separately, included with "Semichemical."

² See table 7, footnote 1.

³ See table 7, footnote 7.

Table 12.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

•	Average number		NUM	BER RECE	VING PAY	DURING N	ORMAL PAY	-ROLL PER	IOD ENDEI	NEAREST 18	TH OF MO	NTH-	
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939 1937 1929	26, 870 26, 994 24, 729	27, 098 25, 084 24, 384	26, 388 25, 697 24, 545	26, 009 26, 271 25, 088	25, 788 26, 917 25, 148	26, 120 26, 988 25, 196	26, 068 27, 569 25, 336	25, 483 28, 241 24, 827	26, 452 28, 422 24, 834	27, 108 28, 157 24, 437	28, 450 27, 746 24, 384	28, 437 27, 184 24, 337	29, 040 25, 649 24, 235
Alabama	502 1, 144 1, 787 3, 048 904	512 1,179 1,959 3,027 883	518 1, 137 1, 497 3, 027 860	508 1, 139 1, 537 3, 045 889	509 1, 101 1, 492 3, 020 981	497 1, 129 1, 645 3, 006 929	494 1, 133 1, 616 2, 935 905	501 1, 133 1, 606 2, 918 902	493 1, 134 1, 616 2, 975 901	491 1,095 1,948 2,998 903	490 1, 092 2, 176 3, 221 903	502 1,090 2,185 3,205 924	506 1, 362 2, 172 3, 205 873
Minnesota	984	963 1, 291 1, 750 1, 112	996 1, 288 1, 577 1, 124	990 1,023 1,595 1,098	983 944 1,636 1,077	980 983 1,556 917	967 1,015 1,691 889	974 531 1,661 1,000	935 1, 260 1, 649 1, 127	1,001 1,296 1,669 1,119	1,026 1,317 1,753 1,145	1,015 1,336 1,776 1,166	984 1, 344 1, 823 1, 155
Oregon Pennsylvania South Carolina Tennessee	934 1, 271 573 747	1,009 1,216 578 702	978 1, 221 573 721	877 1,222 577 709	989 1, 227 575 716	988 1, 250 569 724	897 1, 357 571 702	783 1, 320 566 705	837 1, 298 568 714	1, 322 564 748	934 1,343 570 836	950 1, 233 582 814	1, 095 1, 244 585 870
Vermont Virginia Washington Wisconsin	68 1, 888 3, 850 2, 838	51 1, 785 3, 834 2, 853	60 1, 774 3, 709 2, 877	67 1, 816 3, 581 2, 892	74 1, 756 3, 430 2, 857	89 1, 770 3, 798 2, 821	70 1, 785 3, 820 2, 806	43 1, 869 3, 739 2, 813	38 1, 878 3, 816 2, 820	60 1, 881 3, 886 2, 859	99 2,078 4,110 2,846	94 2, 119 4, 169 2, 817	77 2, 144 4, 311 2, 799

Table 13.—Expenditures for Plant and Equipment: 1939

	1939
Number of establishments: Total for the industry. Reporting expenditures for plant and equipment	194 125
Value of products: Total for the industryReporting expenditures for plant and equipment	\$226, 851, 822 179, 561, 023
Expenditures for plant and equipment: Total for the industry	9, 310, 064
Expenditures for new construction or major alterations of build- ings and other fixed plant and structures.	2, 159, 408
Expenditures for new machinery and operating equipment Expenditures for plant and equipment acquired in a "used" con-	6, 104, 623
dition from other owners and expenditures for land	257, 130
Expenditures unclassified	788, 903

Table 14.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total 1	\$39, 857, 223	\$26, 103, 142
Finished products ¹ Materials, supplies, etc. ¹ End of year, total ¹	7, 012, 326 32, 844, 897 36, 404, 226	3, 537, 658 22, 565, 484 38, 258, 850
Finished products ¹ Materials, supplies, etc. ¹ Value of products for the industry, total	4, 962, 690 31, 441, 536 226, 851, 822	7,013, 171 31,245,679 247,191,957
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	204, 485, 813 22, 366, 009	229, 749, 952 17, 442, 005

¹ Not including data for 13 pulp mills, with combined products valued at \$14,037,144 in 1939, and 10 pulp mills, with combined products valued at \$14,596,394 in 1937, which were operated in conjunction with paper mills and which included the inventory figures for the pulp mills in their paper-mill reports.
² Includes \$14,037,144, the value of products reported by 13 pulp mills in 1939 and \$14,596,394, the value of products reported by 10 pulp mills in 1937, which did not report their inventories separately (see footnote 1).

TABLE 15.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929 See table 11 of the report for "Paper and paperboard mills," p. 648.

PAPER AND PAPERBOARD MILLS

[A preliminary veport for this industry was issued October 18, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of paper and paperboard. The principal material used is wood pulp. the greater part of which is manufactured in pulp mills operated in conjunction with paper mills. Small quantities of pulp made from rags, waste paper, straw, and other fibers of various kinds are also used. All kinds of paperboard, including wallboards, and insulating boards made strictly on paper machines, and converted paper products made in paper mills are classified in this industry. Establishments manufacturing wall and insulating board not made on paper machines are classified in the "Wallboard and wall plaster (except gypsum), building insulation (except mineral wool), and floor composition" industry. An independent fac-

tory making converted paper products is classified according to the value of its principal product.

Paper-making machines.—The distribution of machines by number as given in table 8 is based on the general or usual output of these machines, but in cases where one or more machines of the same type are used for producing two or more kinds of paper or board, the distribution by capacity has been made according to the several kinds of paper manufactured. To illustrate: If a mill operated two Fourdrinier machines and if 80 percent of this mill's output was newsprint and the remaining 20 percent was reported as "hanging paper," both machines were classified in the "number" column of the table as "newsprint," but 80 percent of their capacity was assigned to "newsprint" and 20 percent to "hanging paper."

TABLE 1 .- SUMMARY FOR THE UNITED STATES: 1927 TO 1939

CENSUS YEAR	Number of establish- ments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work 3	Value of products	Value added by manufac- ture ⁴	Horsepower of prime movers ⁵
1939	638 647 591 600 650 685 710	110, 575 110, 809 103, 344 87, 224 87, 683 103, 320 98, 566	\$142, 600, 328 142, 079, 857 110, 200, 308 81, 090, 682 104, 041, 810 140, 398, 374 130, 474, 739	\$532, 260, 521 567, 449, 130 429, 320, 462 311, 766, 966 384, 420, 395 574, 607, 978 572, 785, 538	\$933, 015, 664 957, 939, 764 711, 793, 299 560, 962, 625 684, 971, 197 967, 186, 026 919, 891, 465	\$400, 755, 143 390, 490, 634 282, 472, 837 249, 195, 659 300, 550, 802 392, 578, 048 347, 105, 927	⁵ 2, 745, 059 (6) (7) - (6) (9) 5 2, 168, 012 5 1, 973, 563

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

ITEM	United States	California	Connecti- cut	Delaware	Florida	Illinois	Indiana	Louisiana	Maine
Number of establishments ¹ . Proprietors and firm members.	638	12	27 2	6	3	22	16	8	23
Persons reported by manufacturing establishments, total 2	129, 217	2, 493	2,000	377	1, 076	4, 149	2,099	3, 020	8, 766
Salaried officers of corporations ²	871	7	38	3	1	22	22	7	14
Salaried employees 2 Wage earners (average for the year) 3 Distribution Construction Other	3.047	271 2, 171 30 14	145 1,754 44 19	24 341 2 7	90 940 8 34 3	345 3, 649 128 3 2	1,79 1,832 46 20	295 2, 536 33 149	726 7, 773 38 215
Salaries and wages, total 2	\$188, 316, 938	\$4, 032, 441	\$3,052,222	\$441, 218	\$1, 485, 453	\$6, 434, 989	\$2, 823, 176	\$4,011,314	\$12, 307, 980
Salaried officers ² Manufacturing: Salaries ² Wages Distribution Construction Other	25, 369, 431 142, 600, 328 7, 898, 343	24, 647 647, 297 3, 261, 801 60, 178 38, 518	330, 434 349, 978 2, 232, 572 111, 514 27, 724	25, 053 60, 369 335, 129 8, 000 12, 667	22, 500 196, 555 1, 186, 856 10, 171 66, 000 3, 371	258, 322 809, 999 5, 019, 872 341, 418 2, 378 3, 000	147, 471 413, 555 2, 091, 702 136, 899 33, 549	90, 490 539, 769 3, 092, 772 73, 817 214, 466	108, 895 1, 731, 440 10, 168, 937 88, 755 209, 953
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.	532, 260, 521	8, 524, 084	6, 261, 768	1, 298, 451	7, 335, 010	14, 650, 329	7, 219, 185	18, 252, 594	40, 117, 890
Materials, supplies, and containers Fuel Purchased electric energy Contract work	473, 236, 078 43, 506, 787 15, 387, 272 130, 384	7, 776, 049 457, 864 279, 999 10, 172	5, 299, 477 765, 998 191, 492 4, 801	1,049,857 134,494 114,100	6, 854, 666 462, 512 17, 832	13, 257, 885 1, 306, 236 86, 208	6, 326, 087 681, 767 206, 534 4, 797	16, 408, 058 979, 716 864, 820	36, 020, 841 3, 470, 416 626, 633
Value of products	933, 015, 664 400, 755, 143	17, 501, 256 8, 977, 172	12, 062, 927 5, 801, 159	2,355,354 1,056,903	14, 125, 130 6, 790, 120	29,001,836 14,851,507	13, 100, 711 5, 881, 526	25, 650, 456 7, 397, 862	69, 278, 265 29, 160, 375

¹ See GENERAL EXPLANATIONS—Definition of establishment.
2 See GENERAL EXPLANATIONS—Wage earners and wages.
3 Figures for years prior to 1935 do not include cost of contract work.
4 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
5 Covers power for the "Pulp mills" industry. Because of the fact that in many cases a paper mill and a pulp mill under a common ownership are supplied with power from the same power plant, it is impossible to give separate figures for each industry. The data shown for 1939 include the horsepower for 194 pulp mills; for 1929, include horsepower for 198 pulp mills; for 1927, include horsepower for 219 pulp mills.
5 Not called for on schedule.
7 Data not available.
7 Prior to the year 1927, "Paper and wood pulp" was treated as a single industry classification.

CENSUS OF MANUFACTURES: 1939

Table 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

ITEM	Maryland	Massachu- setts	Michigan	Minnesota	New Hampshire	New Jersey	New York	North Carolina	Ohio
Number of establishments 1.	9	71	49	9	22	35	110	7	45
Proprietors and firm members	4	1				4.040	14 90		
Persons reported by manufacturing establishments, total 2.		11, 548	13, 571	2, 326	2, 562	4, 943	14, 89		10, 678
Salaried officers of corporations 2	1	133	87	13	33	47	117		9:
Manufacturing. Salaried employees ² . Wage earners (average for the year) ³ . Distribution Construction Other	143 1,800 18 56	959 9, 904 295 249 8	868 11, 912 321 364 19	219 1, 966 103 25	195 2, 272 17 45	349 4, 468 54 25	1, 438 12, 700 353 273	1, 100 16 161	1, 127 8, 933 297 216
Salaries and wages, total 2		\$16, 231, 920	\$20,049,874	\$3,827,829	\$3, 430, 541	\$8, 035, 575	\$21, 212, 161	\$1, 985, 199	\$16, 418, 359
Salaried officers 2	43, 821	1, 011, 308	773, 884	158, 775	236, 409	505, 011	801, 478	120, 895	856, 040
Manufacturing: Salaries ² Waces Distribution Construction Other	- 30, 901 77, 202	2, 042, 180 12, 084, 248 653, 299 431, 476 9, 409	1, 969, 977 15, 837, 168 888, 766 551, 848 28, 231	470, 621 2, 846, 793 332, 037 19, 603	371, 196 2, 683, 840 72, 493 66, 603	967, 175 6, 369, 153 168, 656 25, 580	3, 266, 265 15, 816, 668 847, 391 465, 958 14, 406	1, 208, 599 46, 176 251, 818	2, 493, 772 11, 870, 172 755, 369 427, 266 15, 740
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	6, 261, 094	34, 978, 887	51, 076, 125	10, 596, 027	10, 196, 968	21, 623, 791	65, 185, 063	4, 734, 316	39, 971, 037
Materials, supplies, and containers. Fuel. Purchased electric energy Contract work.	- 538, 810 160, 920	29, 766, 416 3, 586, 649 1, 614, 696 11, 126	45, 036, 764 5, 523, 771 511, 100 4, 490	9, 340, 117 1, 105, 697 150, 213	9, 171, 323 769, 672 255, 973	18, 219, 080 2, 474, 227 929, 944 540	57, 249, 285 4, 846, 323 3, 075, 124 14, 331	452, 125 117, 067	36, 421, 889 3, 042, 750 506, 398
Value of products Value added by manufacture ⁴		65, 058, 084 30, 079, 197	89, 112, 533 38, 036, 408	18, 518, 252 7, 922, 225	16, 293, 358 6, 096, 390	39, 927, 897 18, 304, 106	108, 329, 371 43, 144, 308	9, 627, 226 4, 892, 910	67, 492, 845 27, 521, 808
ITEM	Oregon	Pennsyl- vania	Vermont	Virgin	ia Washi	ngton V	West irginia	Wisconsin	Other States
Number of establishments ¹	6	47 3		8 1	11	18	5	. 44	30
Persons reported by manufacturing establishments, total 2	1, 935	10, 507	89	23 2,	870	3, 536	786	13, 663	7, 085
Salaried officers of corporations 2. Manufacturing:	6	71]	10	8	7	7	75	31
Salaried employees 2. Wage earners (average for the year) 3. Distribution Construction Other	150 1,746 5 23	1, 063 8, 508 511 254 100	74	18 15 18 2	256 542 15 43 6	3, 137 21 130	703 14	1, 425 11, 081 587 460 35	667 6, 062 74 251
Salaries and wages, total 2	\$2,882,072	\$16, 524, 784	\$1, 101. 88	\$3, 573,	-	19, 895 \$1	, 104, 956	\$20, 817, 262	\$8, 667, 926
Salaried officers 2	66, 075	666, 589	58, 33	39 104,	525	71, 366	50, 900	825, 044	252, 905
Manufacturing: Salaries 2 Wages Distribution Construction Other	308, 226 2, 454, 455 3, 246 41, 103 8, 967	2, 349, 577 11, 473, 813 1, 452, 615 327, 295 254, 895	107, 56 888, 82 43, 48 3, 67	26 2,831, 30 33, 70 45,	640 4, 53 643 5	34, 525 39, 148 52, 371 22, 485	154, 087 838, 099 61, 870	3, 042, 653 14, 776, 351 1, 488, 410 654, 802 30, 002	1, 297, 805 6, 791, 271 136, 868 186, 077
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.	9, 050, 207	41, 762, 827	4, 470, 66	16, 644,	743 17, 41	16, 041 3	, 357, 545	61, 285, 671	29, 990, 199
Materials, supplies, and containers Fucl	8, 013, 362 604, 347 432, 498	37, 182, 693 3, 601, 373 977, 249 1, 512	3, 919, 09 355, 88 194, 16 1, 52	32 l 609.	618 91	56, 368 3 18, 781 40, 713 179	, 068, 976 230, 667 57, 902	55, 769, 079 4, 045, 884 1, 426, 980 43, 728	26, 761, 497 2, 089, 204 1, 139, 498
Value of products	15, 695, 747 6, 645, 540	81, 103, 067 39, 340, 240	7, 282, 05 2, 811, 38	3 26, 750,	860 33, 96 117 16, 54	31,138 5	, 157, 466 , 799, 921	43, 723 101, 302, 409 40, 016, 738	54, 246, 898 24, 256, 699

¹ Sec General Explanations—Definition of establishment.
2 Sec General Explanations—Persons engaged—general classification.
3 Sec General Explanations—Wage earners and wages.
4 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. Sec General Explanations—Value added by manufacture.
4 Alabama, 3 establishments; Arkansas, 2; District of Columbia, 1; Georgia, 3; Iowa, 2; Kansas, 2; Mississippi, 2; Missouri, 2; Rhode Island, 1; South Carolina, 4; Tennessee, 6; Texas, 2.

Table 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939, 1937, AND 1929

·	19	39	19	37	199	\$9		
	Quantity (short tons)	Value	Quantity (short tons)	Value	Quantity (short tons)	Value		
"Paper and Paperboard Mills" industry, all products, total value		\$933, 015, 664		\$957, 939, 764		\$967, 186, 026		
Paper and paperboard made in this industry (produced for sale and produced for transfer to other plants of same company)		757, 695, 002 1 160, 121 2 175, 062, 542 97, 999	11, 694, 757	809, 613, 157 187, 110 148, 134, 836 4, 661	9, 943, 851	817, 024, 663 150, 161, 363		
Paper and paperboard, aggregate	13, 509, 642	848, 915, 555	12, 837, 003	887, 920, 461	11, 140, 235	903, 301, 140		
Paper and paperboard produced in this industry, total	13, 493, 476	847, 276, 506	12, 830, 503	886, 913, 712	11, 140, 235	903, 301, 140		
Produced for sale and for interplant transfer, total	12, 039, 168	757, 695, 002	11, 694, 757	809, 613, 157	9, 943, 851	817, 024, 663		
Produced for sale	9, 835, 151 2, 204, 017 1, 454, 308	642, 088, 455 115, 606, 547 89, 581, 504	9, 330, 276 2, 364, 481 1, 135, 746	672, 446, 711 137, 166, 446 77, 300, 555	8, 331, 297 1, 612, 554 1, 196, 384	715, 145, 798 101, 878, 865 86, 276, 477		
Paper and paperboard made as secondary products in other industries	16, 166	1, 639, 049	6, 500	1,006,749	(3)	(3)		

-PRODUCTS BY KIND QUANTITY AND VALUE, FOR THE UNITED STATES: 1989, 1987, AND 1929

•	19	39	193	37	192	9
	Quantity (short tons)	Value	Quantity (short tons)	Value	Quantity (short tons)	Value
Paper and paperboard, aggregate value	13, 509, 642	\$848, 915, 555	12, 837, 003	\$887, 920, 461	11, 140, 235	\$903, 301, 140
Newsprint, total	954, 259	39, 764, 572	975, 854	37, 086, 644	1, 409, 169	80, 706, 899
Standard, in rollsStandard, in sheets, and other special grades	925, 897 28, 362	38, 626, 410 1, 138, 162	929, 202 46, 652	35, 106, 048 1, 980, 596	} 2 1, 409, 169	² 80, 706, 899
Froundwood printing and specialty papers, total	540, 342	33, 876, 716	518, 332	32, 617, 672	363, 422	28, 608, 226
HangingCatalog	116, 781 80, 632 39, 159	6, 943, 163 6, 137, 839 1, 819, 752 2, 240, 081	126, 890 100, 974 64, 342 27, 249	7, 785, 201 7, 399, 405 2, 999, 972 1, 898, 647	101, 002 111, 771 } 3 150, 649	7, 293, 93 9, 570, 858 3 11, 743, 43
Poster and lining. Printing (containing not more than 34 percent bleached pulp and not less than 50 percent ground-wood pulp) Rotogravure Other groundwood papers.		4, 780, 909 7, 351, 913 4, 603, 059	54, 433 } 144, 444	3, 735, 004 8, 799, 443	(*)	(4)
Book paper, total.	1, 534, 591	138, 846, 261	1, 510, 011	145, 589, 030	1, 497, 912	168, 271, 65
Machine-finished, sized, and supercalendared		91, 883, 994	1, 028, 183	98, 262, 075	8 1, 176, 596	5 131, 852, 168
Convering paper: Body stock for coated paper— Free from ground wood. Containing ground wood. Other converting paper. Lithograph. Offset Other book paper.	265, 635 9, 374 99, 784 43, 449 66, 097 28, 132	21, 718, 280 710, 748 8, 335, 225 4, 624, 077 8, 352, 398 3, 221, 539	280, 255 10, 961 52, 286 50, 618 60, 460 27, 248	24, 299, 054 914, 663 4, 824, 341 5, 683, 482 8, 232, 638 3, 372, 777	250, 234 (4) 19, 877 26, 304 24, 901	26, 755, 58 (4) 2, 417, 19 3, 847, 123 3, 399, 57
Other book paper		3, 449, 354 2, 305, 586	24, 437 10, 512	4, 435, 204 1, 753, 572	28, 072	6, 429, 85 (⁴)
Writing paper (fine), total	1	83, 973, 218	578, 147	87, 271, 592	607, 590	113. 223, 59
One-hundred-percent rag	13, 420 28, 017 42, 460 364, 054 146, 643	7, 051, 769 8, 547, 557 9, 025, 811 41, 627, 012 17, 721, 069 174, 404, 823	11, 740 31, 017 35, 610 332, 229 167, 551 2, 053, 387	7, 407, 848 10, 349, 767 8, 009, 678 41, 781, 971 19, 722, 328 179, 784, 517	17, 397 40, 416 60, 806 284, 609 204, 362 1, 605, 783	11. 143, 62 15, 972, 90 15, 536, 77 41, 724, 23 28, 846, 06
		9, 808, 284 2, 360, 812 6, 820, 347	147, 293 4, 908 147, 230	11, 346, 439 526, 685 11, 854, 788		
Unbleached sulphite and semibleached sulphate: Butchers' and grocers' paper Machine-glazed wrapping Other grades 6. Bleached sulphite and bleached sulphate: Waxing paper (18 pounds and up). Bag Machine-glazed wrapping Other grades. Wrapping and envelope manila Grease-proof.	141, 007 38, 340 30, 081 135, 329	15, 801, 335 3, 803, 935 2, 859, 986 11, 935, 171	123, 896 13, 470 35, 657 93, 531	14, 334, 946 1, 591, 422 3, 782, 642 9, 203, 074	404, 904	36, 987, 43
Wrapping and envelope manila Grease-proof. Glassine Kraft wrapping:	19, 131 18, 928 55, 516	1, 661, 528 3, 287, 000 11, 031, 175	36, 897 14, 876 46, 833	2, 632, 978 2, 807, 746 9, 920, 864	7, 965 47, 438	1, 607, 93 9, 736, 98
Machine-finished— Wrapping	398, 580	26, 908, 777	376, 141	28, 877, 245	1	
Converting— Bag Other		34, 538, 005 13, 999, 748	502, 256 202, 751	35, 575, 093 7 17, 719, 264	712, 234	68, 499, 4
Machine-glazed— Wrapping———————————————————————————————————		3, 921, 656 1, 586, 942	33, 004 15, 881	2, 909, 588 1, 061, 342		•
BagOther	20, 428	1, 876, 473	(8)	1, 061, 342 (8)	Ŋ	l

See footnotes at end of table.

¹ Principally value of steam sold to outside concerns.
2 Principally value of converted paper products, such as paper bags, boxes and containers, coated book paper, sanitary napkins, toilet paper, towels, and waxed paper.
3 No data.

Table 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939, 1937, AND 1929-Continued

	Continu					
	19	39	19	37	199	29
	Quantity (short tons)	Value	Quantity (short tons)	Value	Quantity (short tons)	Value
Wrapping paper—Continued. Bogus and screenings. Heavy (mill wrappers, etc.). Rope and jute	29, 632	\$1,041,737	26, 212	\$1, 290, 073	38, 529	\$2, 086, 11
Heavy (mill wrappers, etc.)	37, 352	1, 496, 785	32, 409	1, 509, 963	63, 238	3, 423, 42
Rope and jute	22, 340	4, 103, 674	16, 983	3, 132, 715	9 62, 270	3, 423, 42 12, 075, 51
Tagboard, light manila board, and patternOther wrapping paper ¹⁰	49,008 97,625	5, 410, 894 10, 150, 559	59, 820 123, 339	6, 125, 267 13, 532, 383	30, 616 238, 589	3, 503, 58 25, 521, 95
Tissue paper, total	665, 723	64, 531, 114	540, 152	55, 914, 224	387, 811	53, 300, 05
			37, 618		11 63, 834	
High-grade tissue (cigarette, condenser, carbon, etc.)	17, 294 39, 147	8, 398, 730 3, 875, 254	26, 808	10, 031, 827 3, 465, 195 7, 776, 345	12 58, 742	11 15, 307, 08 12 8, 305, 06
Waxing (up to 18 pounds). Wrapping tissue (up to 18 pounds). Toweling. Tollet tissue.	56, 263	6, 908, 364	60, 634	7, 776, 345	18 40, 691	13 5, 543, 37
Toweling.	129, 105	9, 156, 326	93, 284	6, 390, 818	52, 283	4, 903, 06
Toilet tissue Napkin stock	285, 085 70, 098	21, 358, 098 6, 593, 595	254, 221 55, 576	20, 720, 440 5, 739, 376	142, 725 29, 536	15, 102, 95 4, 138, 51
Pattern tissue	3, 572	611. 817	6.237	928, 767	1 20,000	4, 100, 0
Sales-book tissue	1,052	150, 724	2, 395 3, 379	336, 862	} (4)	(4)
Carpet twisting	7, 305	1, 074, 869	3, 379	524, 594	(()	(9)
Other tissue	56, 802	6, 403, 337	(4)	(4)	,	
Absorbent paper, total	121, 717	19, 606, 359	138, 064	22, 120, 473	90, 800	16, 972, 98
Blotting Filter Matrix paper and board	10, 693	1, 883, 147 424, 927	11, 794	2, 185, 230 385, 804 1, 658, 771 3, 029, 374	14, 125	2, 828, 43 (14) 15 1, 516, 2
Filter	1,505	424, 927	1, 435	385, 804	(14) 15 4, 281	(14) 15.1 #10.0
For yulconized fiber	3, 463 13, 647	1, 510, 436 2, 323, 341	3, 739 17, 971	3 029 374	25, 928	4, 106, 7
For vulcanized fiber. Other absorbent paper (including paper for parchmentizing)	92, 409	13, 464, 508	103, 125	14, 861, 294	46, 466	8, 521, 6
Building paper, total	659, 090	31, 105, 249	608, 086	32, 630, 126	659, 178	39, 375, 99
Chaothing napar	44, 408	1, 540, 136	48, 253	1, 936, 845	52, 205	2, 214, 94
Sheathing paper Felts. Asbestos-filled and asbestos paper Other building paper	567, 866	24, 944, 206	523, 663	27, 855, 260	540, 166	32, 544, 9
Asbestos-filled and asbestos paper	42, 615	24, 944, 206 4, 475, 761	36, 170	2, 838, 021	66, 807	4, 616, 1 (4)
Other building paper	4, 201	145, 146	30,170	2, 656, 021	(4)	(4)
Other paper	63, 625	8, 473, 701	77, 985	11, 427, 872	39, 311	5, 227, 97
Boards, total	6, 104, 968	248, 578, 602	5, 802, 036	277, 339, 535	4, 451, 187	227, 741, 51
Container boards: Liners—						
Kraft	1, 385, 523	50, 776, 352	977, 561	45, 678, 709)	
		28, 353, 295	1, 019, 995	45, 678, 709 43, 207, 483	1, 108, 852	55, 212, 5
Other.	137, 968 450, 995	6, 364, 336	147, 012	6, 739, 921	705 100	07 005 1
Straw (for corrugated-container use)	399, 189	12 192 752	506, 013 441, 312	18, 457, 834 16, 895, 781	785, 199 361, 486	16, 085, 2
Other container boards.	168, 112	14, 132, 337 12, 192, 752 6, 382, 619	75, 657	16, 895, 781 3, 423, 586	(16)	27, 865, 1 16, 085, 2 (¹⁶)
Jute Other Chip (plain and test) Straw (for corrugated-container use) Other container boards Folding boxboards (bending): Manila-lined (all lined boards)	F0. F0.			l t	#00 #00	
Patent-costed	784, 725 262, 029	33, 734, 425 14, 461, 252	798, 220 244, 591	41, 128, 607	590, 523	30, 869, 33
Patent-coated. Other folding boxboards Set-up boxboards (nonbending): Chip and straw Newsboard. Other (including tube, egg-case, etc.)	313, 207	12, 672, 949	246, 213	14, 472, 244 11, 597, 891	182, 831 217, 931	11, 195, 0 11, 085, 6
Set-up boxboards (nonbending):	010, 201					
Chip and straw	414, 335	13, 547, 779 7, 692, 751	332, 034	13, 936, 028 9, 864, 394	325, 111	11, 753, 4
Other (including tube agg-ease etc.)	251, 959 199, 191	7, 692, 751 8, 868, 855	251, 458 136, 818	9, 864, 394 5, 953, 517	189, 028 85, 526	7, 430, 98 3, 859, 43
Binder's board	28, 054	1, 760, 450	51, 913	3, 620, 887	64, 165	4, 675, 0
Cardboard:			· ·	· · · · · ·	52,270	2, 270, 00
Blanks and miscellaneous	21, 911	1, 763, 086 2, 597, 478	21, 181	1, 544, 434 2, 153, 118		4 001 44
Oray-coased cardboard	31, 669 5, 294	2, 597, 478 479, 868	25, 618 4, 519	2, 153, 118 469, 979	47, 233	4, 921, 69
Other cardboard 17	0,204	210,000	3,019		,	
Other cardboard 17	_		00 445	9 509 804	1	
Other cardboard 17	28, 782	3, 505, 407	20, 445	2,002,001	1	
Other cardboard 17	28, 782 45, 429	5, 024, 664	46, 273	5, 239, 750	(4)	(4)
Other cardboard 17	28, 782 45, 429 5, 263 25, 714	5, 024, 664 459 511	46, 273 6, 821	2, 592, 804 5, 239, 750 612, 039]	
Other cardboard 17	28, 782 45, 429 5, 263 25, 714 7, 619	5, 024, 664	46, 273	5, 239, 750 612, 039 2, 238, 888 1, 521, 648	24, 228 11, 901	(4) 2, 942, 49 2, 480, 48

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¹ Includes data for paper and paperboard made and used in the same plants in the manufacture of converted paper products, as follows: 1930, 1,454,308 tons, valued at \$89,581,504; 1937, 1,135,746 tons, valued at \$77,300,555; 1929, 1,196,384 tons, valued at \$86,276,477.

2 "Standard, in rolls and sheets" only.

3 Poster-novel, news-tablet, lining, etc.

\[
\text{Not reported as "Book papers."}
\]

6 Includes figures for "Bag" not shown separately to avoid disclosing figures for individual establishments for 1939.

7 Includes figures for "Other," "Machine-glazed," converting, kraft wrapping paper.

8 Included in figures for "Other," "Machine-finished," converting, kraft wrapping paper.

9 Reported as "Rope, jute, etc."

10 Includes data for "Vegetable and imitation parchment" not shown separately to avoid disclosing figures for individual establishments for 1939.

11 Reported as "High grade" only.

12 Reported as "Waxing" only.

13 Published in 1929 report as "Manila and No. 2 white."

14 Included in "Other absorbent paper."

15 Reported as "Matrix paper" only.

16 Figures for "Other container boards" included in those for "Other boards."

17 Includes figures for "Photomounts" not shown separately to avoid disclosing figures for individual establishments for 1939.

18 Figures include data for "Wallboard," "Insulating board," and "Other building boards," as follows: For 1939, 114,505 tons, valued at \$5,554,584; for 1937, 110,005 tons, valued at \$5,823,409; for 1929, data not available.

Table 5.—PAPER AND PAPERBOARD PRODUCTS, BY QUANTITY AND VALUE, BY STATES: 1939, 1937, AND 1929 [This table shows, by States, the output of the principal products for which separate figures can be given without disclosing the production of individual establishments. Where the product of chief importance cannot be shown, only the State total is given]

	19	39	19	37	1929		
STATE	Quantity (short tons)	Value	Quantity (short tons)	Value	Quantity (short tons)	Value	
United States	13, 509, 642	\$848, 915, 555	12, 837, 003	\$887, 920, 461	11, 140, 235	\$903, 301, 14	
California	294, 846	13, 588, 242	278, 650	14, 737, 489	253, 800	15, 140, 41	
Building papersOther	58, 937 235, 909	3, 087, 666 10, 500, 576	60, 189 218, 461	3, 158, 406 11, 579, 083	(1) 253, 800	(¹) 15, 140, 41	
Connecticut		10, 971, 044	212, 205	14, 179, 283	197, 060	15, 656, 53	
Boards	156, 722 7, 494 4, 513	8, 524, 376 1, 735, 287 711, 381	201, 015 (¹) 11, 190	11, 861, 013 (¹) 2, 318, 270	189, 156 (¹) 7, 904	. 12, 474, 33 (1) 3, 182, 19	
Delaware		1, 984, 464	36, 389	2, 735, 045	39, 366	4, 817, 32	
Florida	370, 778	14, 125, 130	(2)	(2)			
Boards		14, 125, 130	(2)	(2)			
Illinois	· ·	22, 985, 791	593, 854	27, 634, 366	596, 577	29, 748, 08	
Beenda	412, 304	13, 431, 839	452, 597	18, 436, 844	406, 597	16, 835, 40	
Building papers	132, 841 14, 680	13, 431, 839 6, 324, 555 1, 435, 321	120, 895 (¹)	6, 089, 826 (1)	133, 269 (¹)	7, 817, 278 (1)	
Other	11, 764	1, 794, 076	`20, 362	3, 107, 696	` 56, 711	ð, 095 , 40	
Indians		12, 327, 156	295, 981	14, 221, 547	348, 760	18, 120, 35	
BoardsOther	244, 830 22, 226	10, 626, 189 1, 700, 967	277, 587 18, 394	12, 566, 762 1, 654, 785	315, 630 33, 139	15, 370, 41- 2, 749, 94	
Louisiana	ł	25, 650, 456	533, 977	28, 558, 171	273, 574	18, 041, 80	
BoardsOtherOther	341, 179 225, 294 27, 429	12, 325, 890 12, 239, 200 1, 085, 366	308, 729 210, 103 15, 145	13, 837, 673 13, 953, 555 766, 943	119, 534 143, 758 10, 282	6, 431, 158 10, 887, 962 722, 690	
Maine	1	66, 158, 088	1, 038, 775	67, 212, 313	1,061,384	87, 021, 34	
Newsprint, in rolls and sheets	485, 504 166, 780 147, 957 106, 866	19, 949, 244 14, 669, 672 8, 067, 381 10, 288, 620 8, 579, 582 4, 603, 589	480, 444 (1) 157, 539 133, 869 57, 770 209, 153	18, 005, 529 (1) 8, 559, 948 12, 349, 872 7, 360, 425 20, 936, 539	560, 626 (1) (1) (1) (1) (1) 500, 758	31, 482, 173 (1) (1) (1) (1) (1) 55, 539, 168	
Maryland	155, 525	8, 489, 049	167, 189	10, 892, 652	109, 348	9, 453, 897	
BoardsOther	62, 603 92, 922	2, 207, 766 6, 281, 283	59, 592 107, 597	2, 655, 310 8, 237, 342	(1) 109, 348	(¹) 9 , 4 53, 897	
Massachusetts	i	62, 117, 024	514, 039	65, 957, 345	562, 462	91, 044, 28	
Boards Book papers Writing papers Wrapping papers Tissue papers Text papers Cover papers Absorbent papers Other	82, 025 64, 445 26, 540 6, 637 6, 593 2, 085 20, 313	12, 166, 487 10, 611, 398 20, 818, 102 7, 614, 158 6, 444, 181 1, 434, 767 1, 061, 355 493, 431 1, 473, 195 74, 953, 540	203, 473 116, 042 80, 476 63, 080 18, 441 (a) 7, 436 8, 476 16, 615	12, 904, 439 13, 818, 168 22, 032, 493 8, 060, 581 4, 823, 249 (3) 1, 407, 219 1, 282, 657 1, 628, 539 80, 560, 995	182, 166 144, 945 89, 769 65, 996 14, 174 (1) (1) (1) 65, 412 1, 092, 111	13, 186, 124 20, 833, 386 35, 006, 982 10, 735, 863 3, 903, 301 (1) (1) 7, 378, 644 82, 016, 376	
Boards	755, 712	31, 267, 481	784, 574	37, 252, 359	640, 143	32, 746, 89	
Book papers. Wrapping papers. Writing papers. Tissue papers. Other.	187, 564 116, 231 59, 351 23, 463	16, 432, 639 12, 125, 134 6, 603, 393 2, 752, 422 5, 772, 471	165, 257 111, 915 48, 579 20, 997 87, 104	15, 754, 615 12, 439, 430 6, 541, 452 2, 687, 460 5, 885, 679	186, 043 92, 996 (1) (1) 172, 929	32, 746, 89: 19, 395, 08: 9, 892, 05: (1) (1) 19, 982, 34:	
Minnesota	301, 774	16, 775, 823	293, 059	17, 513, 187	318, 387	21, 647, 52	
Groundwood printing and specialty papers Newsprint, in rolls and sheetsOther	50, 595	3, 671, 566 2, 396, 331 10, 707, 926	57, 029 (1) 236, 030	3, 291, 253 (1) 14, 221, 934	(1) 121, 563 196, 824	(1) 7, 324, 38 14, 323, 13	
New Hampshire	ł	15, 296, 824	158, 924	16, 015, 301	195, 547	22, 206, 61	
Wrapping papers. Tissue papers. Writing papers. Boards. Book papers. Other.	54, 178 49, 836 24, 583 20, 763 14, 498	4, 791, 397 4, 180, 036 2, 730, 445 1, 620, 118 1, 550, 744 424, 084	60, 602 30, 005 14, 868 18, 815 20, 057 14, 577	5, 984, 809 2, 619, 611 1, 774, 298 1, 582, 676 2, 100, 447 1, 953, 460	80, 991 30, 425 26, 575 (1) (1) 57, 556	9, 314, 01 3, 584, 07 3, 875, 33 (1) (1) 5, 433, 18	
New Jersey		37, 920, 846	640, 207	37, 332, 282	604, 940	37, 074, 13	
Boards	556, 714 116, 145 4, 960	20, 677, 768 5, 888, 835 1, 781, 951 9, 572, 292	471, 954 114, 548 (1) 53, 705	21, 139, 617 6, 534, 726 (1) 9, 657, 939	433, 560 122, 139 (¹) 49, 241	18, 874, 08 7, 320, 00 (1) 10, 880, 05	

See footnotes at end of table.

Table 5.—Paper and Paperboard Products, by Quantity and Value, by States: 1939, 1937, and 1929—Continued

en en en en 1900 de la lace de la La lace de la lace de	19	39	19	37	1929		
STATE	Quantity (short tons)	Value	Quantity (short tons)	Value	Quantity (short tons)	Value	
lew York	1, 386, 857	\$101,008,860	1, 415, 027	\$107, 919, 128	1, 512, 855	\$124, 711, 68	
Boards Groundwood printing and specialty papers. Wrapping papers Book papers Tissue papers Newsprint, in rolls and sheets. Building papers Writing papers Absorbent papers Other	184, 036 174, 863 154, 608 143, 417 107, 081 83, 083 53, 364 33, 600	21, 816, 561 12, 452, 606 14, 775, 159 13, 732, 450 18, 587, 028 4, 647, 699 4, 503, 950 5, 627, 558 5, 490, 355 4, 375, 494	450, 520 174, 819 179, 825 175, 487 131, 248 105, 218 79, 228 60, 237 30, 893 18, 552	24, 111, 792 11, 545, 090 16, 827, 909 15, 869, 326 11, 826, 261 4, 058, 603 5, 043, 188 6, 632, 194 6, 591, 169 5, 413, 506	442, 427 (1) 200, 952 182, 593 95, 225 235, 072 60, 695 (1) (1) 295, 891	26, 066, 2 (1) 20, 293, 5 19, 485, 2 11, 557, 1 13, 420, 2 3, 979, 9 (1) (1) 29, 909, 3	
North Carolina	128, 022	9, 627, 226	(2)	(2)	. 69, 616	5, 552, 2	
BoardsOther	55, 844 72, 178	3, 112, 372 6, 514, 854	(2) (2)	(2) (2)	(1) 69, 616	(1) 5, 552, 2	
Ohio		63, 013, 885	1,037,884	72, 822, 688	936, 572	72, 281, 7	
Boards. Book papers. Wrapping papers. Writing papers Building papers Other.	506, 766 244, 421 70, 729 61, 821 57, 081	19, 574, 362 23, 337, 887 6, 121, 550 7, 886, 112 2, 667, 722 3, 426, 252	561, 355 265, 310 70, 358 54, 303 63, 718 22, 840	25, 441, 854 26, 176, 096 6, 869, 182 7, 566, 107 3, 287, 537 3, 481, 912	500, 874 227, 335 58, 388 54, 013 73, 195 22, 767	22, 349, 3 26, 038, 0 6, 801, 9 8, 162, 7 4, 783, 0 4, 149, 5	
Oregon	260, 402	15, 399, 590	273, 630	16, 051, 586	222, 731	16, 158,	
Wrapping papersTissue papersOther	14, 290	6, 153, 392 891, 966 8, 354, 232	72, 793 11, 451 189, 386	5, 868, 756 1, 004, 095 9, 178, 735	(1) (1) 222, 731	(1) (1) 16, 158, 5	
Pennsylvania.	916, 152	65, 523, 857	846, 720	65, 241, 872	748, 960	67, 117, 8	
Boards Book papers Wrapping papers Writing papers Building papers Absorbent papers Other	226, 713 71, 732 63, 488 61, 432 18, 998	11, 531, 385 20, 653, 430 6, 257, 031 8, 668, 823 2, 816, 863 2, 826, 704 12, 769, 621	307, 247 235, 780 69, 620 59, 213 45, 196 11, 954 117, 710	13, 570, 757 22, 421, 605 6, 846, 261 8, 796, 625 2, 100, 862 1, 867, 648 9, 638, 114	268, 256 210, 178 62, 527 61, 384 64, 566 (1) 82, 049	11, 815, 3 23, 438, 3 6, 875, 7 11, 342, 6 3, 661, 1 (1) 9, 984, 8	
rennessee	116, 374	5, 619, 470	104, 881	5, 524, 324	83, 564	4, 407, 3	
BoardsOther	84, 054 32, 320	2, 973, 556 2, 645, 914	87, 003 17, 878	3, 579, 235 1, 945, 089	(1) 83, 564	(1) 4, 407, 8	
Vermont	83, 298	6, 323, 666	82, 071	6, 600, 838	72, 677	6, 763,	
Groundwood printing and specialty papersOther	7, 752 75, 546	501, 512 5, 822, 154	(1) 82, 071	(1) 6, 600, 838	(1) 72, 677	(1) 6, 763, 1	
Virginia	510, 844	26, 334, 888	461, 541	29, 126, 378	242, 455	20, 296,	
Boards. Wrapping papers. Book papers. Other.	137, 427 48, 007	12, 116, 867 8, 417, 154 4, 102, 123 1, 698, 744	293, 933 (1) 50, 022 117, 586	14, 809, 602 (¹) 4, 545, 847 9, 770, 929	86, 090 89, 637 (1) 66, 728	4, 590, 6 7, 801, 6 (¹) 7, 904, 3	
Washington	552, 577	32, 387, 257	546, 227	35, 624, 530	382, 253	27, 679,	
BoardsOther		5, 424, 221 26, 963, 036	156, 229 389, 998	7, 593, 738 28, 030, 792	98, 700 283, 553	4, 994, 22, 684,	
West Virginia	55, 897	4, 260, 252	53, 586	4, 478, 252	51,889	5, 016,	
Wrapping papersOther	29, 976 25, 921	2, 873, 247 1, 387, 005	16, 052 37, 534	1, 768, 537 2, 709, 715	19, 305 32, 584	2, 620, 2, 396,	
Wisconsin	1	87, 794, 799	940, 867	87, 202, 056	886, 146	85, 240,	
Wrapping papers. Book papers. Boards. Tissue papers. Writing papers. Groundwood printing and specialty papers. Other	170, 308 143, 583 100, 355 68, 335	22, 920, 151 18, 550, 174 7, 629, 325 11, 896, 526 14, 769, 945 5, 093, 416 6, 935, 262	254, 414 172, 087 168, 117 123, 381 98, 523 63, 590 60, 755	25, 472, 052 14, 760, 529 8, 940, 081 11, 743, 749 15, 664, 852 5, 044, 114 5, 576, 679	251, 402 135, 306 157, 120 (1) (1) (1) 342, 318	25, 319, 12, 494, 8, 134, (1) (1) (1) 39, 292,	
Other Southern States 5Other States 6	943, 968 156, 656	42, 435, 351 5, 842, 977	938, 378 154, 516	52, 615, 352 7, 163, 481	} 277, 192	16, 084,	

¹ Included in "Other" to avoid disclosing data for individual establishments.

2 Withheld to avoid disclosing data for an individual establishment. Included in "Other Southern States."

3 "Text papers" included in "Book papers."

4 Not called for on schedule.

5 For 1939 and 1937: Alabama, Arkansas, Georgia, Mississippi, South Carolina, and Texas. In addition, Florida and North Carolina for 1937.

6 For 1939 and 1937: District of Columbia, Iowa, Kansas, Missouri, and Rhode Island. For 1929: Alabama, Arkansas, Colorado, District of Columbia, Georgia, Iowa, Kansas, Missouri, Mississippi, Rhode Island, South Carolina, and Texas.

Table 6.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

	Average number	mber											
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939	110, 575 110, 809 103, 320	106, 365 108, 167 102, 082	107, 452 109, 568 103, 231	107, 403 111, 455 103, 311	108, 265 112, 935 102, 809	107, 927 112, 691 102, 847	108, 248 113, 258 103, 614	108, 339 113, 240 103, 508	109, 547 113, 179 104, 241	112, 225 112, 217 104, 036	116, 043 110, 491 104, 309	117, 560 107, 646 103, 489	117, 528 104, 863 102, 362
Alabama California Connecticut Delaware Florida Georgia	1, 127	1, 135	1, 117	1, 124	1, 172	1, 105	1, 087	1, 097	1, 114	1, 137	1, 134	1, 127	1, 170
	2, 171	2, 039	2, 059	2, 036	2, 073	2, 116	2, 143	2, 209	2, 236	2, 274	2, 315	2, 296	2, 260
	1, 754	1, 663	1, 718	1, 710	1, 677	1, 681	1, 729	1, 728	1, 747	1, 830	1, 818	1, 865	1, 888
	341	340	326	327	336	329	339	343	334	332	318	379	386
	940	921	957	930	931	921	948	938	934	936	956	949	954
	572	606	586	585	590	582	561	570	557	563	541	549	577
Illinois	3, 649	3, 476	3, 504	3, 533	3, 598	3,600	3, 612	3, 598	3, 631	3,682	3, 835	3, 875	3, 842
Indiana	1, 832	1, 735	1, 801	1, 839	1, 816	1,747	1, 718	1, 830	1, 827	1,812	1, 890	1, 973	1, 998
Louisiana	2, 536	1, 810	1, 866	1, 860	2, 130	2,324	2, 382	2, 448	2, 514	3,011	3, 310	3, 316	3, 455
Maine	7, 773	7, 602	7, 581	7, 638	7, 637	7,672	7, 580	7, 512	7, 582	7,748	8, 139	8, 278	8, 311
Maryland	1, 800	1, 655	1, 757	1, 766	1, 767	1,758	1, 631	1, 822	1, 912	1,914	1, 952	1, 824	1, 840
Massachusetts Michigan Minnesota New Hampshire New Jersey	9, 904	9, 696	9, 819	9,797	9, 839	9, 785	9, 720	9, 659	9, 690	9, 881	10, 294	10, 349	10, 322
	11, 912	11, 473	11, 486	11,592	11, 659	11, 595	11, 725	11, 640	11, 864	12, 164	12, 495	12, 730	12, 516
	1, 966	1, 869	1, 939	1,952	1, 914	1, 914	1, 935	1, 964	1, 956	2, 010	2, 063	2, 085	1, 996
	2, 272	2, 278	2, 315	2,243	2, 221	2, 256	2, 239	2, 215	2, 236	2, 266	2, 352	2, 374	2, 272
	4, 468	4, 490	4, 514	4,391	4, 422	4, 031	4, 206	4, 158	4, 466	4, 561	4, 789	4, 803	4, 788
New York	12,700	12, 255	12, 312	12, 340	12, 527	12, 486	12, 502	12, 433	12, 488	12, 733	13, 227	13, 459	13, 640
North Carolina	1,100	968	981	982	1, 009	1, 025	1, 031	1, 017	1, 024	1, 141	1, 266	1, 365	1, 393
Ohio	8,933	8, 834	8, 896	8, 753	8, 717	8, 840	8, 793	8, 738	8, 721	8, 897	9, 162	9, 435	9, 414
Oregon	1,746	1, 697	1, 731	1, 724	1, 720	1, 708	1, 683	1, 695	1, 727	1, 797	1, 820	1, 824	1, 830
Pennsylvania	8, 508	8, 129	8, 239	8,316	8, 421	8, 283	8, 341	8, 484	8, 473	8,620	8, 855	8, 964	8, 968
South Carolina	928	915	927	924	922	924	918	916	922	917	935	972	948
Tennessee	736	7 01	686	699	743	763	720	685	740	749	754	799	790
Vermont	745	687	765	742	720	736	728	728	733	751	790	783	782
Virginia	2, 542	2, 416	2, 486	2, 527	2, 525	2, 506	2, 528	2, 495	2, 506	2, 569	2, 636	2, 661	2, 649
Washington	3, 137	2, 986	2, 976	3, 009	3, 041	3, 095	3, 150	3, 150	3, 173	3, 297	3, 305	3, 235	3, 227
West Virginia	703	682	672	662	638	654	686	677	697	727	792	774	770
Wisconsin	11, 081	10, 744	10, 833	10, 870	10, 930	10, 939	10, 977	10, 997	11, 101	11, 136	11, 363	11, 536	11, 546

Table 7.—Principal Materials Consumed, by Kind, Quantity, and Cost, for the United States: $1939^{\, \mathrm{I}}$ and 1929

	19	939	1929					
	Quantity (short tons)	Cost	Quantity (short tons)	Cost				
Wood pulp, total	8, 650, 423	\$276, 518, 844	6, 289, 318	\$302, 923, 324				
Mechanical Soda Sulphite Sulphate. Semichemical.	1, 749, 118 515, 650 2, 912, 704 3, 354, 338 118, 613	34, 445, 044 22, 211, 988 131, 719, 989 86, 505, 597 1, 636, 226	(2)	(2)				
Manila stock (rope, jute, bagging, etc.)	512, 993 115, 173 17, 587	2, 232, 647 14, 808, 348 57, 293, 159 3, 400, 220 3, 186, 458 3, 244, 243 7, 480, 640 1, 940, 926 4, 980, 259	128, 800 739, 422 3, 841, 942 575, 263 (2) 18, 451 470, 528 38, 390 99, 443	6, 115, 292 33, 249, 233 74, 232, 577 5, 197, 706 (2) 4, 346, 664 7, 120, 281 2, 155, 114 6, 567, 703				
Other nonfibrous materials (alum, starch, etc.)	571, 115	22, 928, 742	(2)	(2)				

No data for 1937.Not called for on schedule.

Table 8.—Paper Machines, by Type, Number, and Capacity, and by Kind of Paper Made: 1939, 1937, and 1929

[See "Paper-making machines," p. 641]								
	Total	FOUR	DRINIER	CAT	INDER			
	capacity per year of 310 days	Num- ber	Capacity per 24 hours	Num- ber	Capacity per 24 hours			
Aggregate: 1939 1937 1929	Short tons 16, 557, 410 15, 572, 850 13, 704, 480	885 873 937	Short tons 30, 383 27, 513 22, 131	684 687 738	Short tons 23, 028 22, 722 22, 077			
Standard newsprint: 1939 1937 1929	988, 280 1, 000, 370 1, 695, 080	40 44 126	3, 188 3, 227 5, 461	i	7			
463395-42-42								

Table 8.—Paper Machines, by Type, Number, and Capacity, and by Kind of Paper Made: 1939, 1937, and 1929— Continued

· · · · · ·	Total	FOUR	DRINIER	CYL	INDER
	capacity per year of 310 days	Num- ber	Capacity per 24 hours	Num- ber	Capacity per 24 hours
Hanging, catalog, novel-news, etc. 1: 1939 1937 1929 1909 Book paper:	Short tons 631, 470 557, 070 (2)	56 53 (2)	Short tons 2, 033 1, 797 (2)	1 (2)	Short tons 4 (2)
1939	1, 936, 260 1, 904, 640 1, 774, 750	210 218 239	6, 242 6, 131 5, 691	1 1 4	4 13 34
1939 1937 1929	30, 070 40, 300 46, 810	5 9 13	93 123 132	1 2 3	4 7 19
Writing paper: 1939	747, 100 757, 020 623, 410	134 141 143	2, 379 2, 442 1, 984	4	31
Wrapping paper: 1939	2, 609, 580 2, 351, 660 2, 039, 800	214 201 206	7, 898 7, 000 5, 597	37 40 69	520 586 983
Tissue paper: 1939 1937 1929	792, 980 648, 210 442, 680	125 104 102	1, 882 1, 537 952	92 79 94	676 554 476
Absorbent paper: 1939 1937 1929	165, 850 180, 420 148, 800	36 42 36	495 522 369	16 25 16	40 60 1 11
Building paper: 1939 1937 1929	938, 370 859, 630 911, 090	8 8 5	377 375 230	61 63 72	2, 650 2, 398 2, 709
Other paper: 1939 1937 1929	86, 490 105, 400 325, 190	12 9 38	181 191 973	10 13 7	98 149 76
Boards: 1939	7, 630, 960 7, 168, 130 5, 696, 870	45 44 29	5, 615 4, 168 742	461 464 470	19, 001 18, 955 17, 635

¹ Includes news-tablet, poster-lining, rotogravure, and other printing and groundwood papers.

Not reported separately; included with "Standard newsprint."

TABLE 9.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

1939
638 536
\$933, 015, 664 883, 870, 167
37, 501, 951
9, 758, 757 26, 112, 978 1, 136, 091 494, 125

Table 10.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total 1	\$137, 109, 055	\$122, 542, 668
Finished products	42, 692, 903 94, 416, 152	38, 395, 714 84, 146, 954
End of year, total 1	142, 050, 110	151, 510, 217
Finished products	39, 907, 457 102, 142, 653	47, 009, 019 104, 501, 198
Value of products for the industry, total	933, 015, 664	957, 939, 764
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	917, 759, 066 15, 256, 598	948, 493, 423 9, 446, 341

¹ Includes figures for 13 pulp mills, with combined products valued at \$14,037,144 for 1989, which were operated in conjunction with paper mills and inventories were not reported separately, and 10 pulp mills with combined products valued at \$14,596,394 for 1937.

Table 11.—Prime Movers, Motors, Generators, and Electric Energy: 1939 and 1929

[This table covers the power reported for "Paper and paperboard mills" and for "Pulp mills." Because of the fact that in many cases a paper milland a pulp mill under common ownership are supplied with power from the same power plant, it is impossible to give separate power equipment figures for the two industries]

	1939	1929
Number of establishments	832	883
Number of establishments reporting power equipment_	804	749
Prime movers, aggregate: Number Horsepower	4, 107 2, 745, 059	4, 745 2, 168, 012
Prime movers, driving generators, total—	1, 695	1 4, 745
Number————————————————————————————————————	2, 127, 938	1 2, 168, 012

TABLE 11.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 1939 AND 1929—Continued

	1939	1929
Prime movers—Continued.		
Prime movers, driving generators—Continued.	,	l
Steam engines— Number	393	1004
Horsepower	177, 409	1 2, 248 1 533, 968
Steam turbines—	111, 100	- 500, 500
Number	617	1 717
Horsepower Diesel and semi-Diesel engines—	1, 478, 697	1 746, 988
Number		h
Horsenower	1,730	II
Horsepower Other internal-combustion engines 2— Number		1 17, 98
Number	. 9	1,000
Horsepower	2, 168	ען
Hydrotûrbines and water wheels— Number	670	11 706
Horsepower		1 1, 700 1 869, 07
	1	
Prime movers, driving generators, ordinarily idle		Į.
(included above), horsepower	188, 942	1
Prime movers not driving generators, total—		11
Number	2 412	
Horsepower	2, 412 617, 121	
		-
Steam engines—		ll .
NumberHorsepower	1, 118 219, 106	H
Steam turbines—	219, 100	11
Number	794	1
Horsepower	114, 400	(3)
Diesel and semi-Diesel engines—		11
Number Horsepower	1,479	{ }
Other internal-combustion engines 2—	1,418	11
Number	13][
Horsepower	1,910	
Hydroturbines and water wheels—	150	II.
Number Horsepower	280, 226	H
Prime movers not driving generators, ordinarily	200, 220	[]
Prime movers not driving generators, ordinarily idle (included above), horsepower	33,862	lj.
Generators, kilowatt rating, total	1, 517, 966	945, 398
Generators, driven by—		
Steam engines, kilowatt rating	123, 052	h
Steam engines, kilowatt rating Steam turbines, kilowatt rating Diesel and semi-Diesel engines, kilowatt rating	123, 052 1, 061, 038	li
Diesel and semi-Diesel engines, kilowatt rating.	1, 263	(3)
Other internal-combustion engines,2 kilowatt	1,563	(3)
rating Hydroturbines and water wheels, kilowatt rating	1,000]]
	331,050)
Generators, ordinarily idle (included above), kilo-		Í
watt rating	138, 567	(4)
Electric motors, total:	1 .	1
Number	128, 523	70,013
Horsepower	3, 213, 637	70, 013 2, 000, 948
Driven by purchased energy— Number	20 500	04 477
Horsenower	39, 592 1, 102, 675	24, 470 800, 419
Horsepower	1, 102, 010	000, 11
reporting—	:	
Number	88, 931	45, 543
Horsepower	2, 110, 962	1, 200, 526
Electric energy (kilowatt-hours):	6 207 043 224	(4)
(+angrated in plant		
Generated in plant Sold Purchased	1 210, 499, 793	(3)

Includes data for prime movers not driving generators.
 Gas, gasoline, etc.
 Not called for on schedule.
 Data not available.

CONVERTED PAPER PRODUCTS SUBGROUP

[Preliminary reports for these industries were issued September 21, 1940, and subsequent dates]

Description of the industries.—The industries included in the Converted Paper Products subgroup embrace establishments engaged primarily in the conversion of paper and paperboard into containers and other commodities. These industries are as follows:

Coated and glazed paper.

Envelopes.

Paper bags, except those made in paper mills.

Fiber cans, tubes, and similar products.

Paperboard containers and boxes not elsewhere classified.

Die-cut paper and paperboard, and converted cardboard.

Wallpaper.

Converted paper products not elsewhere classified.

Statistics for earlier census years.—The summary statistics presented in table 1 are not strictly comparable for all the census years shown, for the following reasons:

For 1939 establishments primarily engaged in the manufacture of printed and lithographed paper patterns were classified in the "Converted paper products not elsewhere classified" industry, while for previous census years such establishments were classified in the former "Printing and publishing, book, music, and job" industry or in the "Lithographing" industry. The figures for 1937 were revised in accordance with changes in classifications, but no revisions were made in the figures for previous census years.

For 1931 the industry classification "Labels and tags" was discontinued, and establishments engaged in the manufacture of printed labels and tags were transferred to the former "Printing and publishing, book and job" industry.

TABLE 1.—SUMMARY FOR THE CONVERTED PAPER PRODUCTS SUBGROUP FOR THE UNITED STATES: 1899 TO 1939

[Figures for years prior to 1937 not strictly comparable. See "Statistics for earlier census years"]

CENSUS YEAR	Number of establish- ments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work 3	Value of products	Value added by manufac- ture 4	Horsepower of prime movers
1939	2, 233 2, 166	126, 570 128, 322 108, 694 89, 082 89, 186	133, 350, 038 133, 613, 242 102, 123, 007 73, 647, 958 89, 935, 667	\$471, 146, 481 490, 983, 296 361, 847, 169 260, 983, 517 271, 005, 073	\$855, 874, 338 867, 251, 726 644, 184, 880 477, 088, 593 520, 921, 231	\$384, 727, 857 376, 268, 430 282, 337, 711 216, 105, 076 249, 916, 158	45, 771 (8) (7) (6) (6)
1929 1927 1925 1921	2, 043 1, 964	105, 344 101, 077 97, 660 98, 349 79, 462	114, 253, 011 110, 151, 573 102, 951, 437 98, 667, 307 75, 674, 033	369, 361, 396 358, 252, 348 313, 797, 212 305, 036, 842 223, 077, 821	686, 136, 843 647, 908, 013 574, 931, 804 549, 623, 084 404, 364, 469	316, 775, 447 289, 655, 665 261, 134, 592 244, 586, 242 181, 286, 648	39, 340 43, 631 43, 260 (7) (6)
1919 1914 1900 1904 1899	1, 734 1, 635	94, 356 78, 295 68, 812 55, 238 44, 620	77, 033, 649 35, 598, 594 26, 889, 758 19, 453, 211 14, 935, 800	253, 425, 574 101, 651, 540 77, 227, 555 51, 019, 075 37, 228, 548	462, 385, 826 187, 542, 496 145, 469, 142 97, 081, 678 70, 857, 106	208, 960, 252 85, 890, 956 68, 241, 587 46, 062, 603 33, 628, 558	59, 956 56, 171 (7) (7) (7)

¹ See GENERAL EXPLANATIONS—Definition of establishment.
2 See GENERAL EXPLANATIONS—Wage earners and wages.
3 Figures for years prior to 1935 do not include cost of contract work.
4 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
5 Figures for 1937 have been revised for comparability with 1939 because of change in classification, but/no revision was made for prior years.
5 Not called for on schedule.
7 Data not available.

Table 2.—Summary for the Converted Paper Products Industries, by Value, for the United States: 1939, 1937,

	1939	1937	1929
Converted Paper Products industries, all products, total value	\$855, 874, 338	\$867, 251, 726	\$686, 136, 843
Converted paper products made in this group Miscellaneous products not classifi-	830, 771, 230	852, 499, 169	
able. Other products (not classified in this subgroup) Receipts for contract and repair work.	2, 702, 711 21, 080, 949 1, 319, 448	1, 329, 882 12, 067, 025 1, 355, 650	(1)
Converted paper products, aggregate value.	1, 030, 186, 842	1, 015, 303, 685	861, 588, 771
Converted paper products made in the "Converted Paper Products" subgroup of industries. Converted paper products made in the	830, 771, 230	852, 499, 169	(1)
"Paper and paperboard mills" in- dustry	172, 738, 675	145, 661, 827	
secondary products in other indus-	26, 676, 937	17, 142, 689	

¹ Data not available.

Table 3.—Converted Paper Products—Production, by Kind and Value: 1939, 1937, and 1929

KIND	1939	1937	1929
Converted paper products, aggregate value	\$1,030,186,842	\$1,015,303,685	\$861, 588, 771
Bags, total 1	96, 570, 838	97, 483, 720	79, 124, 252
Kraft Glassine Other paper	75, 886, 414 5, 520, 823 15, 163, 601	79, 061, 203 5, 628, 499 12, 794, 018	63, 884, 477 (²) 15, 239, 775
Boxes and containers, total	448, 347, 697	448, 753, 777	352, 534, 098
Paper and paperboard containers, total	425, 269, 447	424, 580, 993	333, 423, 432
Shipping containers, corrugated Shipping containers, solid-fiber Cartons and folding boxes Set-up paper boxes Decorated, lithographed, lac-	187, 282, 159 26, 241, 429 126, 872, 733 73, 940, 837	191, 757, 522 29, 262, 396 119, 062, 925 77, 945, 275	97, 959, 464 42, 035, 357 95, 726, 976 85, 382, 513
quered, and fancy-covered boxes. Other boxes and containers. Fiber and fiber and metal combination, total	5, 951, 759 4, 980, 530 23, 078, 250	2, 836, 922 3, 715, 953 24, 172, 784	6, 600, 125 5, 718, 997 19, 110, 666
Bottles	864, 543 14, 805, 539 939, 851 6, 468, 317	17, 764, 951 (2) 6, 407, 833	(2) 13, 023, 526 (2) 3 6, 087, 140
Bobbins, reels, ribbon blocks, spools, etc., fiber	840, 034	(2)	(2)
Cones, fiber	2, 734, 781	(2)	(2)
Cards cut and designed, total	14, 558, 493	20, 528, 275	16, 104, 053
Index, library, etc., cards, plain Jacquard cards for textile-fabric ma-	3, 496, 331	5, 275, 523	3, 640, 527
chines	248, 730	287, 270	476, 304
Photograph mats, mounts, folders, etcOther	2, 699, 297 8, 114, 135	3, 017, 034 11, 948, 448	5, 222, 592 6, 764, 630
Bottle capsCardboard (converted)	10, 779, 264 9, 643, 997	8, 919, 446 7, 269, 946	5, 523, 755 6, 937, 388

Table 3.—Converted Paper Products—Production, by Kind and Value: 1939, 1937, and 1929—Continued

KIND	1939	1937	1929
Coated and glazed paper, total	\$136, 574, 837	\$129, 198, 450	\$111, 838, 673
Coated book paper Glazed and fancy paper Waterproof wrapping paper Waxed paper Other coated Gummed paper and tape, total	37, 978, 864 11, 624, 580 5, 723, 694 57, 403, 072 6, 584, 867 16, 555, 744	43, 731, 242 9, 093, 935 5, 427, 772 53, 394, 544 (2) 16, 990, 124	49, 514, 438 10, 575, 108 3, 259, 298 35, 464, 098 (²) 13, 025, 734
Gummed flat paper Gummed paper tape. Gummed cloth tape Cloth-lined paper Com wrappers. Confetti. Crepe paper	4, 264, 739 8, 279, 540 4, 011, 465 704, 016 522, 616 37, 878 2, 975, 643	4, 657, 015 7, 856, 398 4, 476, 711 560, 833 528, 968 (4) 3, 174, 623	2, 247, 730 6, 125, 07 4, 652, 92 (2) (2) (1) 61, 016 5, 003, 66
Cups, paper, total	17, 412, 990	13, 641, 932	10, 713, 63
Round Conical or wedge-shape, nested Flat	12, 932, 773 3, 469, 390 1, 010, 827	11, 401, 951 (²) 2, 239, 981	10, 713, 63
Dishes, spoons, etc., paper Egg-case fillers and flats Envelopes. Facial tissue and handkerchiefs File folders Labels, paper, unprinted Napkins, paper	2, 848, 256 1, 691, 189 50, 194, 653 12, 118, 323 2, 584, 092 724, 709 10, 420, 107	3, 040, 637 1, 917, 122 48, 523, 793 8, 776, 078 1, 402, 547 11, 029, 608	6, 113, 114 (2) 57, 657, 514 (2) (2) (3) (5) 6, 899, 617
Papeteries, total		6 9, 862, 232	17, 459, 245
Unprinted Printed	9, 360, 499 1, 135, 890	6, 718, 169 3, 144, 063	17, 459, 242
Patterns, paper, total	10, 246, 549	9, 970, 773	12, 965, 86
Printed and lithographed Unprinted Stencil or embroidery	3, 700, 522 4, 998, 534 1, 547, 493	3, 199, 064 4, 427, 485 2, 344, 224	12, 965, 86
Rolls, paper (for adding machines, telegraph tape, etc.)	2, 780, 562	3, 188, 022	1, 768, 200
Tablets, total	10, 569, 940	10, 224, 286	9, 446, 54
Book. News. Writing. Other.	2, 045, 401 2, 009, 592 5, 684, 459 830, 488	1, 659, 949 2, 270, 313 5, 574, 529 719, 495	809, 754 2, 232, 570 4, 204, 303 2, 199, 914
Tags (paper and paperboard), unprinted Toilet paper (converted) Towels, paper	1, 900, 881 39, 016, 620 15, 352, 399	1, 695, 590 35, 263, 062 12, 141, 940	(§) 25, 323, 220 8, 035, 657
Vulcanized fiber, total	7, 470, 500	11, 679, 420	1
Rods, tubes, and other unfinished forms. Laminated sheets and plates. Hollow ware (boxes, cans, pails, etc.). Other and not specified.	2, 690, 769 2, 903, 652 1, 448, 515 427, 564	2, 948, 657 4, 767, 728 2, 044, 259 1, 918, 776	(1)
Wall paper 8	24, 953, 799	26, 771, 546	30, 004, 88
Other converted paper and paperboard products 9	85, 818, 806	90, 317, 892	98, 074, 37

¹ In addition, bags are made to some extent of transparent sheets of plastic materials (cellulose, etc.) which are classified in the "Fabricated plastic products, not elsewhere classified" industry.

¹ Not called for on schedule.

¹ "Tubes" only.

¹ Not shown separately to avoid disclosing data for individual establishments.

¹ Included in figure for "Other converted paper and paperboard products."

¹ No data.

¹ Number of rolls: 1939, 372,649,686; 1937, 411,186,355; and 1929, 373,893,950.

¹ Cigarette paper, lace paper, playing cards, and miscellaneous paper products for all years; in addition, seals for 1939, confetti for 1937; labels and tags, valued at \$30,-897,857, and twisted paper (cord, twine, etc.), valued at \$424,782, for 1929.

TABLE 4.—CONSUMPTION OF PAPER AND PAPERBOARD, BY KINDS OF PRODUCTS MADE: 1939

	Total value	AND P USED	Y OF PAPER APERBOARD AND VALUE DUCTS BOTH TED	Value of products for establishments not reporting quan-		Total value	QUANTITY OF PAPER AND PAPERBOARD USED AND VALUE OF PRODUCTS BOTH REPORTED		products for estab-
		Quantity (short tons)	Value of products	tities of paper and paper- board used			Quantity (short tons)	Value of products	tities of paper and paper- board used
Aggregate	\$1,030,186,842	6, 912, 032	\$751, 547, 937	\$278,638,905	Confetti	\$37, 878 2, 975, 643	213 4, 865	\$25, 889 1, 072, 965	
Bags: Kraft Glassine Other paper	5, 520, 823	709, 778 10, 173 39, 836	4, 069, 717	1, 451, 106	Cups, paper: Round Conical or wedge-shape, nested ed Flat	12, 932, 773 3, 469, 390	19, 210 11, 323	8, 493, 351 3, 011, 103	4, 439, 422 458, 287
Boxes and containers (paper and paperboard): Shipping containers, corrugated. Shipping containers, solid-fiber. Cartons and folding boxes. Set-up paper boxes.	187, 282, 159 26, 241, 429 126, 872, 733 73, 940, 837	413, 315 985, 403	22, 580, 676 104, 827, 130	ſ · ·	Flat Dishes, spoons, etc., paper Egg-case fillers and flats Euvelopes Facial tissue and handkerchiefs File folders Labels, paper, unprinted Napkins, paper	2, 848, 256 1, 691, 189 50, 194, 653 12, 118, 323 2, 584, 092 724, 709	1, 915 12, 331 17, 675 106, 780 47, 893 4, 489 643	1, 960, 389 1, 060, 484 27, 740, 182 11, 323, 164 1, 081, 462 292, 690	887, 867 630, 705 22, 454, 471 795, 159 1, 502, 630 432, 019
Decorated, lithographed, lac- quered, and fancy-covered boxesOther boxes and containers Fiber and fiber and metal combi- nation—	4, 980, 530	15, 787 5, 921	3, 110, 335 1, 024, 397	2, 841, 424 3, 956, 133	Papeteries: Unprinted Printed	9, 360, 499 1, 135, 890	57, 550 15, 358 1, 275	9, 349, 294 4, 938, 967 408, 343	4, 421, 532
Bottles	14, 805, 539 939, 851	768 41, 684 3, 154 38, 192	173, 942 9, 345, 054 741, 874 4, 588, 195	197, 977	Patterns, paper: Printed and lithographed Unprinted Stencil or embroidery	3, 700, 522 4, 998, 534 1, 547, 493	560 1,099	722, 121 2, 526, 067	2, 978, 401 2, 472, 467 1, 547, 493
Bobbins, reels, ribbon blocks, spools, etc., fiber	840, 034 2, 734, 781	2, 836 15, 185	461, 839 2, 248, 970	378, 195 485, 811	Rolls, paper (for adding machines, telegraph tape, etc.)	2, 780, 562	7, 508	1, 294, 163	
Cards cut and designed: Index, library, etc., cards, plain Jacquard cards for textile-fab- ric machines.	3, 496, 331 248, 730	4, 030	1, 849, 409 122, 228	1, 646, 922 12 <u>6,</u> 502	Book News Writing Other	2, 045, 401 2, 009, 592 5, 684, 459 830, 488	12, 175 12, 113 27, 076 4, 610	2, 028, 982 1, 841, 501 4, 902, 385 539, 418	16, 419 168, 091 782, 074 291, 070
Photograph mats, mounts, folders, etcOther	2, 699, 297 8, 114, 135	1, 997 22, 987	1, 111, 393 6, 031, 105	1, 587, 904 2, 083, 030	Tags (paper and paperboard), un- printed	1, 900, 881 39, 016, 620 15, 352, 399	1, 334 280, 466 140, 381	652, 749 38, 987, 757 15, 328, 608	1, 248, 132 28, 863 23, 791
Bottle caps	10, 779, 264 9, 643, 997	21, 008 79, 428	6, 643, 080 8, 761, 198	4, 136, 184 882, 799	Vulcanized fiber: Rods, tubes, and other unfin-	2, 690, 769	(1)	(1)	2, 690, 769
Coated and glazed paper: Coated book paper Glazed and fancy paper Waterproof wrapping paper Waxed paper Other coated	37, 978, 864 11, 624, 580 5, 723, 694 57, 403, 072 6, 584, 867	306, 018 19, 076 34, 072 295, 731 22, 122	37, 909, 121 5, 582, 044 3, 392, 373 55, 033, 860 4, 813, 769	69, 743 6, 042, 536 2, 331, 321 2, 369, 212 1, 771, 098	ished forms. Hollow ware (boxes, cans, pails, etc.) Laminated sheets and plates. Other and not specified. Wallpaper 2. Other converted paper and paper-	2, 690, 769 1, 448, 515 2, 903, 652 427, 564 24, 953, 799	(9)	(1)	1, 448, 515 2, 903, 652 427, 564 24, 953, 799
Gummed paper and tape— Gummed flat paper. Gummed paper tape. Gummed cloth tape. Oloth-lined paper. Coin wrappers.	4, 264, 739 8, 279, 540 4, 011, 465 704, 016 522, 616	12, 862 41, 117 (¹) 926 370	3, 112, 253 6, 553, 441 (1) 652, 042 183, 724	1, 152, 486 1, 726, 099 4, 011, 465 51, 974 338, 892	Not called for on schedule. Quantity of paper not reported	85, 818, 806	253, 781 rolls, 372,66	35, 490, 082 49,686; weigh	

COATED AND GLAZED PAPER

[A preliminary report for this industry was issued December 11, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of coated book, waxed, and gummed paper (including gummed labels and paper and cloth tape), waterproofed wrapping paper, flypaper, cloth-lined paper, and other coated and glazed paper made from purchased stock. Carbon paper is included in the "Carbon paper and inked ribbons" industry, and photographic and blueprint paper in the "Photographic apparatus and materials and projection equipment (except lenses)" industry.

Statistics for prior census years.—At the census for 1939, "Coated and glazed paper" was established as a separate industry. Returns for establishments primarily engaged in the production of coated and glazed paper were previously classified in the "Paper goods not elsewhere classified" industry. The figures for the establishments classified in the "Coated and glazed

paper" industry were deducted from the statistics for 1937 and form this industry for comparison with 1939. No revisions were made, however, in the statistics for earlier years, and therefore comparable figures are not available for years prior to 1937.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

The second secon	CENSUS YEAR	Num- ber of estab- lish- ments ¹	Wage earners (aver- age for the year) ²	Wages	Cost of ma- terials, sup- plies, fuel, purchased electric en- ergy, and contract work	Value of products	Value added by manu- facture ³	Horse- power of prime movers
	1939	140 103	7,450 - 7,240	\$9, 384, 260 8, 614, 339	\$53,627,595 51,950,312	\$84,386,593 78,522,258	\$30,758,998 26,571,946	9, 09 7 (⁵)

1 See General Explanations—Definition of establishment.
2 See General Explanations—Wage earners and wages.
3 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work.
See General Explanations—Value added by manufacture. and contract work.

4 No comparable figures available for years prior to 1937.

Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

ITEM	United States	Illinois	Massa- chusetts	Michigan	Missouri	New Jersey	New York	Ohio	Pennsyl- vania	Rhode Island	Wiscon- sin	Other States 1
Number of establishments 2 Proprietors and firm members	140 17	8	23 2	5	4	9	30 6	15	10 5	6	6	24 4
Persons reported by manufacturing establishments, total 3	9, 549	690	1, 486	418	413	566	1, 189	934	402	226	429	2, 796
Salaried officers of corporations 3	201	20	42	3	5	15	39	23	10	10	9	25
Salaried employees 8	1,040	60	224	15	29	52	119	144	48	30	39	280
year) 4 Distribution Construction Other	7, 450 766 84 8	508 102	1, 107 93 15 5	378 22	319 54 6	462 33 4	973 57 1	684 61 22	314 23 4 3	173 11 2	344 36 1	2, 188 274 29
Salaries and wages, total 3	\$14, 898, 515	\$1, 205, 583	\$2, 407, 393	\$590, 434	\$701, 735	\$747, 124	\$1, 641, 994	\$1,600,741	\$603, 518	\$307, 028	\$660, 226	\$4, 432, 739
Salaried officers 3 Manufacturing:	.,,	178, 465	331, 837	14, 906	99, 415	84, 419	268, 491	241, 546	60, 164	37, 503	79, 869	212, 940
Salaries 3. Wages. Distribution Construction Other	9, 384, 260	127, 042 670, 431 219, 569	427, 222 1, 406, 135 203, 705 31, 821 6, 673	27, 920 501, 010 46, 598	59, 311 383, 756 150, 429 8, 824	88, 598 515, 428 54, 091 4, 588	224, 839 1, 041, 165 105, 899 1, 600	267, 194 908, 901 165, 948 17, 152	89, 923 367, 590 76, 777 7, 407 1, 657	55, 396 195, 235 16, 308 2, 586	69, 792 451, 441 57, 517 1, 607	654, 651 2, 943, 168 587, 546 34, 434
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	53, 627, 595	5, 401, 923	8, 186, 960	2, 136, 762	2, 488, 672	3, 579, 087	5, 454, 917	6, 893, 226	1, 933, 647	652, 249	2, 234, 364	14, 665, 788
Materials, supplies, and con- tainers	52, 313, 862 526, 662 610, 662 176, 409	5, 314, 017 23, 765 60, 796 3, 345	7, 820, 407 127, 901 105, 376 133, 276	2, 062, 365 50, 592 15, 607 8, 198	2, 456, 923 3, 811 27, 938	3, 508, 492 12, 248 58, 347	5, 314, 561 70, 607 63, 240 6, 509	6, 785, 334 54, 574 53, 318	1, 884, 663 16, 079 32, 905	607, 816 19, 970 24, 346 117	2, 168, 501 41, 831 24, 032	14, 390, 783 105, 284 144, 757 24, 964
Value of products Value added by manufacture ¹	84, 386, 593 30, 758, 998	7, 644, 280 2, 242, 357	13, 026, 943 4, 839, 983	3, 062, 849 926, 087	3, 661, 302 1, 172, 630	6, 330, 012 2, 750, 925	8, 870, 530 3, 415, 613	10, 103, 751 3, 210, 525	3, 240, 629 1, 306, 982		3, 394, 515 1, 160, 151	23, 876, 891 9, 211, 103

¹ Alabama, 1 establishment; California, 4; Connecticut, 2; Georgia, 1; Indiana, 1; Iowa, 1; Louisiana, 1; Maine, 1; Minnesota, 1; Nebraska, 1; New Hampshire, 1; Oregon, 2; Tennessee, 1; Texas, 3; Vermont, 2: Washington, 1.

² See General Explanations—Definition of establishment.

³ See General Explanations—Persons engaged—general classification.

⁴ See General Explanations—Wage earners and wages.

⁴ See GENERAL EXPLANATIONS—Wage earners and wages.
5 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Coated and Glazed Paper industry, all products, total value	\$84, 386, 593	\$78, 522, 258
Coated and glazed paper made in this industry. Miscellaneous products not classifiable. Other products (not classified in this industry). Receipts for contract and repair work.	77, 433, 934 1 66, 101 2 6, 579, 064 307, 494	71, 768, 652 134, 995 6, 562, 387 56, 224
Coated and glazed paper, aggregate value	136, 574, 837	129, 198, 450
Coated and glazed paper made in this industry	77, 433, 934 59, 140, 903	71, 768, 652 57, 429, 798
Produced in other industries within the "Converted Paper Products" sub- group. Produced in the "Paper and paperboard mills" industry. Produced in other industries outside the Paper and Allied Products group	7, 872, 468 50, 781, 915 486, 520	(4)

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

	Produced in the industry	Produced in other industries within the Con- verted Paper Products sub- group	Produced in the Paper and Paperboard Mills industry	Produced in other industries outside the Paper and Allied Prod- ucts group		. 1937
Total value	\$77, 433, 934	\$7, 872, 468	\$50, 781, 915	1 \$486, 520	\$136, 574, 837	\$129, 198, 450
Coated book paper. Glazed and fancy paper. Waterproof wrapping paper. Waxed paper. Other coated Cloth-lined paper.	10, 816, 379 9, 625, 891 4, 296, 555 36, 919, 629 2, 029, 409 304, 497	393, 011 1, 173, 691 851, 182 3, 218, 963 399, 519	26, 769, 474 819, 020 575, 957 17, 264, 480 4, 555, 458	5, 978	37, 978, 864 11, 624, 580 5, 723, 694 57, 403, 072 6, 584, 867 704, 016	43, 731, 242 9, 093, 935 5, 427, 772 53, 394, 544 (²) 560, 833
Gummed paper and tape: Gummed flat paper. Gummed paper tape. Gummed cloth tape.	2, 274, 258 7, 242, 704 3, 924, 612	1, 107, 626 641, 623 86, 853	528, 450 269, 076	354, 405 126, 137	4, 264, 739 8, 279, 540 4, 011, 465	4,657,015 7,856,398 4,476,711

¹ Principally from "Cloth sponging and miscellaneous special finishing" and "Insecticides, fungicides, and related industrial and household chemical compounds" industries.

No data.

TABLE 5.-WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

	Average number		NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTE—										
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939 1937	7, 450 7, 240	7, 170 7, 146	7, 226 7, 245	7, 247 7, 289	7, 186 7, 424	7, 161 7, 446	7, 208 7, 402	7, 235 7, 337	7, 292 7, 280	7, 556 7, 223	7, 995 7, 158	8, 085 7, 101	8, 033 6, 829
California Illinois Massachusetts Michigan Missouri New Jersey	1 502 1	208 503 1, 038 362 273 472	208 509 1,057 370 278 472	210 502 1,060 376 280 452	206 502 1, 052 362 295 445	205 503 1,068 350 311 435	215 508 1,074 352 322 443	220 503 1,079 364 331 441	225 508 1, 078 374 338 435	234 509 1, 114 399 353 463	247 506 1, 199 422 350 502	230 519 1, 231 403 352 498	224 528 1, 232 406 342 487
New York Ohio Pennsylvania Rhode Island Wisconsin	973 684 314 173 344	970 647 303 172 332	969 681 291 169 328	970 678 309 171 329	932 676 312 170 339	914 658 305 175 335	932 652 304 173 330	920 683 303 168 329	901 675 304 175 328	965 692 320 177 350	1,056 736 323 176 377	1,090 724 348 177 380	1, 053 710 347 178 376

Merchandise bought and sold in the same condition.
 Principally value of paper bags, boxes, converted cardboard, crepe paper, rolls, paper, and converted roofing paper.
 No data.

	1939
Number of establishments: Total for the industry. Reporting expenditures for plant and equipment	140 95
Value of products: Total for the industry	\$84, 386, 593 69, 986, 175
Expenditures for plant and equipment: Total for the industry	1, 719, 206
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land. Expenditures unclassified.	318, 596 1, 335, 927 62, 239 2, 444

Table 6.—Expenditures for Plant and Equipment: 1939 | Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$10, 705, 552	\$10, 899, 719
Finished products	3, 775, 220 6, 930, 332	3, 818, 926 7, 080, 793
End of year, total	12, 371, 866	11, 174, 198
Finished products	3, 916, 845 8, 455, 021	4, 121, 274 7, 052, 924
Value of products for the industry, total	84, 386, 593	78, 522, 258
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand) Value for establishments not reporting inventories	83, 550, 054 836, 539	75, 882, 655 2, 639, 603

TABLE 8.—PRIME MOVERS, MOTORS, GENERATORS, AND ELECTRIC ENERGY: 19391

	1939		1939
Number of establishments	140 138	Prime movers—Continued. Prime movers, steam engines, not driving generators— Number	5 663
Prime movers, aggregate: Number Horsepower	34 9,097	Horsepower	5, 908
Prime movers, driving generators, total— Number Horsepower	29 8, 434	Steam engines, kilowatt rating Steam turbines, kilowatt rating Diesel and semi-Diesel engines, kilowatt rating Other internal-combustion engines,² kilowatt rating Hydroturbines and water wheels, kilowatt rating Generators, ordinarily idle (included above), kilowatt rating	274
Steam engines— Number.————————————————————————————————————	5, 859	Electric motors, total: Number	5, 352 39, 837
Horsepower	2 430	Horsepower Driven by purchased energy— Number Horsepower Driven by energy generated in establishments reporting—	4, 264 31, 542
Number Horsepower Hydroturbines and water wheels— Number Horsepower	1,015	Number Horsepower Electric energy (kilowatt-hours): Generated in plant	1, 088 8, 298 9, 306, 728
Prime movers, driving generators, ordinarily idle (included above), horsepower.	194	Sold	23, 477 39, 291, 056

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

ENVELOPES

[A preliminary report for this industry was issued November 23, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of paper envelopes

of any description, including those made for filing, wrapping, etc.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establish- ments ¹	Wage earners (average for the year) ²	Wages	Cost of mate- rials, supplies, fuel, purchased electric energy, and contract work ³	Value of products	Value added by manufac- ture 4	Horsepower of prime movers
1939	162 166	8, 689 9, 511 9, 038 7, 981 8, 924	\$9, 596, 844 10, 502, 815 9, 086, 718 6, 754, 947 9, 658, 173	\$24, 623, 014 25, 106, 584 20, 900, 441 15, 917, 974 22, 452, 160	\$50, 118, 134 51, 289, 922 43, 618, 372 33, 895, 511 46, 943, 261	\$25, 495, 120 26, 183, 338 22, 717, 931 17, 977, 537 24, 491, 101	3, 139 (5) (6) (5) (5)
1929	153 135 132	10, 367 9, 745 9, 052 9, 241 7, 944	11, 526, 849 10, 754, 636 9, 987, 202 9, 525, 054 8, 180, 523	29, 927, 683 28, 973, 192 27, 423, 300 27, 527, 875 24, 051, 507	61, 286, 992 56, 006, 225 51, 188, 914 50, 751, 558 43, 910, 409	31, 359, 309 27, 033, 033 23, 765, 614 23, 223, 683 19, 858, 902	3, 494 3, 036 3, 174 3, 340 (5)
1919	1 78	8, 129 6, 970 5, 303 4, 298 2, 984	6, 649, 989 3, 378, 184 2, 226, 187 1, 629, 511 1, 150, 463	21, 964, 743 10, 234, 841 7, 566, 996 5, 974, 948 3, 665, 275	39, 664, 077 18, 481, 013 13, 453, 522 10, 222, 366 6, 299, 330	17, 699, 334 8, 246, 172 5, 886, 526 4, 247, 418 2, 634, 055	3, 001 2, 847 (6) 1, 427 1, 230

Data not available.

TABLE 2.—GENERAL SŢATISTICS IN DETAIL BY STATES: 1939

ITEM	United States	Califor- nia	Illinois	Mary- land	Massa- chusetts	Michi- gan	Minne- sota	Missouri	New York	Ohio	Pennsyl- vania	Other States 1
Number of establishments 2 Proprietors and firm members	169 41	11 10	22 3	4	15	5	9	8	38 8	10	14 6	33 11
Persons reported by manufacturing establishments, total 3	11, 161	452	1, 616	215	2, 065	320	297	657	1, 991	1, 334	669	1, 545
Salaried officers of corporations 3	257	14	38	11	25	9	7	17	58	17	22	39
Manufacturing: Salaried employees 3	826	44	102	13	166	23	17	37	148	92	67	117
Wage earners (average for the year) 4	8, 689 1, 289 75 25	331 57 5	1, 214 246 16	165 26	1, 609 214 27 24	226 62	223 50	488 115	1, 534 243 8	1, 175 48 2	506 74	1, 218 154 17
Salaries and wages, total 3		\$688, 115	\$2, 391, 533	\$290, 833	\$2, 737, 652	\$541, 678	\$437, 627	\$990, 116	\$3, 040, 326	\$1, 714, 093	\$872, 135	\$2, 122, 400
Salaried officers 3	1, 621, 032	50, 967	259, 288	80, 299	95, 643	71,070	36, 517	118, 724	410, 650	130, 906	131, 445	235, 523
Manufacturing: Salaries 3 Wages Distribution Construction Other	1, 777, 199 9, 596, 844 2, 652, 170 150, 088 29, 175	104, 409 403, 409 119, 315 8, 537 1, 478	242, 235 1, 393, 700 459, 130 37, 180	20, 825 154, 258 35, 451	408, 793 1, 788, 434 369, 580 47, 505 27, 697	55, 798 286, 337 128, 473	35,026 245,011 121,073	81, 325 538, 090 251, 977	241, 920 1, 754, 766 609, 261 23, 729	186, 300 1, 280, 380 112, 466 4, 041	116, 812 487, 748 136, 630	284, 256 1, 264, 711 308, 814 29, 096
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	24, 623, 014	911, 225	3, 607, 054	724, 058	4, 754, 112	690, 365	613, 122	1, 347, 995	4, 414, 030	3, 397, 860	1, 049, 636	3, 113, 557
Materials, supplies, and containers. Fuel. Purchased electric energyContract work	23, 966, 746 145, 235 339, 427 171, 606	885, 275 2, 604 11, 629 11, 717	3, 456, 118 26, 045 67, 116 57, 775	711, 019 1, 764 11, 275	4, 667, 946 45, 372 31, 864 8, 930	666, 676 6, 418 11, 730 5, 541	597, 933 4, 424 10, 765	1, 290, 175 2, 958 20, 932 33, 930	4, 277, 120 10, 790 91, 050 35, 070	3, 353, 720 20, 889 23, 251	1, 019, 410 5, 719 18, 348 6, 159	3, 041, 354 18, 252 41, 467 12, 484
Value of products Value added by manufacture 5	50, 118, 134 25, 495, 120	1, 963, 648 1, 052, 423	7, 508, 836 3, 901, 782	1, 196, 691 472, 633	9, 479, 111 4, 724, 999	1, 570, 768 880, 403	1, 294, 477 681, 355	2, 884, 476 1, 536, 481	9, 001, 934 4, 587, 904	6, 154, 333 2, 756, 473	2, 385, 801 1, 336, 165	6, 678, 059 3, 564, 502

¹ See General Explanations—Definition of establishment.
2 See General Explanations—Wage earners and wages.
3 Figures for years prior to 1935 do not include cost of contract work.
4 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.
5 Not called for on schedule.
6 Detarnot agricults.

¹ Colorado, 1 establishment; Connecticut, 2; District of Columbia, 1; Georgia, 2; Indiana, 3; Iowa, 1; Kentucky, 2; Louisiana, 1; Nebraska, 2; New Jersey, 1; Oklahoma, 1; Oregon, 1; Tennessee, 1; Texas, 5; Virginia, 2; Washington, 3; Wisconsin, 4.

1 See General Explanations—Persons engaged—general classification.

1 See General Explanations—Persons engaged—general classification.

2 See General Explanations—Wage earners and wages.

1 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture. 655

CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Envelopes industry, all products, total value	\$50, 118, 134	\$51, 289, 922
Envelopes made in this industry. Miscellaneous products not classifiable	47, 337, 347 1 76, 984 2 2, 542, 639 161, 164	46, 265, 140 176, 314 4, 488, 314 360, 154
Envelopes, aggregate value	50, 194, 653	48, 523, 79
Envelopes made in this industry	47, 337, 347 2, 857, 306	46, 265, 14 2, 258, 65
Made in other industries within the "Converted paper products" subgroup	2,824,525 4 32,781	} (3)

1 Includes the value of waste, scrap, and merchandise bought and sold in same condition.
2 Principally the value of other converted paper products, such as bags, boxes, cups, and tablets.
3 No data.
4 Principally from the "Printing, publishing, and allied industries" group.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937 No detailed production figures are collected for this industry.

Table 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

	Average number		NUM	BER RECE	IVING PAY	DURING NO	ORMAL PAY	-ROLL PER	IOD ENDE	NEAREST 1	5TH OF MC	NTH-	
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939 1937 1929	8, 689 9, 511 10, 367	8, 547 9, 312 10, 031	8, 623 9, 535 10, 177	8, 663 9, 681 10, 291	8, 648 9, 735 10, 404	8, 630 9, 697 10, 363	8, 550 9, 609 10, 350	8, 453 9, 500 10, 299	8, 571 9, 457 10, 320	8, 683 9, 458 10, 461	8, 852 9, 422 10, 598	9, 101 9, 399 10, 573	8, 950 9, 332 10, 536
California Illinois Indiana Maryland Massachusetts	143	344 1,177 142 160 1,598	350 1, 205 135 158 1, 604	338 1, 223 146 163 1, 587	338 1, 232 145 158 1, 602	348 1, 214 140 162 1, 591	334 1, 218 140 160 1, 567	335 1, 196 144 159 1, 539	344 1, 191 143 164 1, 545	329 1, 199 145 171 1, 595	355 1, 219 144 175 1, 656	347 1, 250 146 176 1, 738	212 1, 243 147 178 1, 685
Michigan Minnesota Missouri New York Ohio	226 223 488 1, 534 1, 175	215 235 455 1, 525 1, 145	231 228 485 1, 533 1, 152	226 228 486 1,550 1,160	230 236 455 1,538 1,180	218 228 479 1, 528 1, 174	212 215 481 1,504 1,165	219 211 479 1,474 1,161	216 210 492 1,506 1,164	242 216 505 1,517 1,167	231 217 508 1,552 1,186	234 225 511 1, 594 1, 213	232 225 518 1, 592 1, 229
Pennsylvania Texas Washington Wisconsin	1 69	493 64 33 103	495 66 33 102	510 67 34 105	499 67 32 104	500 69 32 106	501 68 32 107	490 68 33 107	503 72 25 111	505 70 24 109	497 71 25 107	538 75 25 108	539 73 25 112

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments: Total for the industry	169 109
Value of products: Total for the industry	\$50, 118, 134 42, 006, 947
Expenditures for plant and equipment: Total for the industry	1, 250, 274
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.	251, 123 843, 246 155, 905

Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$6, 725, 367	\$7, 210, 751
Finished products	2, 396, 385 4, 328, 982	2, 763, 482 4, 447, 269
End of year, total	8,087,302	8, 000, 020
Finished products	2, 543, 234 5, 544, 068	3, 055, 237 5, 034, 783
Value of products for the industry, total	50, 118, 134	51, 289, 922
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand). Value for establishments not reporting inventories	49, 388, 654 729, 480	50, 175, 204 1, 114, 718

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 and 1929

	1939	1929
Number of establishments Number of establishments reporting power equipment	169 168	171 167
Prime movers, aggregate: Number	18 3, 139	30 3,494
Prime movers, driving generators, total— Number————————————————————————————————————	14 2, 834	1 30 1 3, 494
Steam engines— Number Horsepower Steam turbines—		1 24 1 2, 989
Number Horsepower		1 1 1 50
Diesel and semi-Diesel engines— Number Horsepower Other internal-combustion engines 2— Number	717	1 3 1 160
Horsepower Hydroturbines and water wheels— Numbor	1	12
Horsepower	110	1 295
Prime movers, driving generators, ordinarily idle (included above), horsepower	325	
Prime movers not driving generators, total— Number Horsepower	4 305	(3)
Steam engines— Number Horsepower	3 255	

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 and 1929—Continued

	1939	1929
Prime movers—Continued. Prime movers not driving generators—Continued. Steam turbines—		
Number Horsepower	1 50	} (3)
Generators, kilowatt rating, total	1, 907	2, 204
Generators, driven by— Steam engines, kilowatt rating Diesel and semi-Diesel engines, kilowatt rating Hydroturbines and water wheels, kilowatt rating Generators, ordinarily idle (included above), kilowatt rating	1, 430 457 20 200	(4)
Electric motors, total: Number Horsepower	8, 758 14, 177	7, 405 13, 037
Driven by purchased energy— Number————————————————————————————————————	7, 543 11, 960	5, 589 9, 583
Number	1, 215 2, 217	1,816 3,454
Electric energy (kilowatt-hours): Generated in plant	2, 762, 859 30, 732 11, 754, 605	(4) (3) 9, 488, 111

Includes data for prime movers not driving generators.
 Gas, gasoline, etc.
 Not called for on schedule.
 Data not available.

PAPER BAGS, EXCEPT THOSE MADE IN PAPER MILLS

[A preliminary report for this industry was issued December 10, 1940]

Description of the industry.—This industry, as con- any description. Bags made of cellophane are included primarily engaged in the manufacture of paper bags of classified" industry.

stituted for census purposes, embraces establishments in the "Fabricated plastic products, not elsewhere

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establish- ments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work 3	Value of products	Value added by manufac- ture ⁴	Horsepower of prime movers
1939	107 9 6	11, 081 10, 360 9, 120 7, 665 6, 836	\$10, 628, 601 9, 849, 896 8, 037, 966 5, 812, 998 6, 422, 669	\$53, 964, 442 53, 423, 931 41, 766, 195 29, 295, 537 33, 426, 725	\$85, 776, 374 82, 458, 263 65, 563, 696 49, 379, 367 54, 290, 800	\$31, 811, 932 29, 034, 332 23, 797, 501 20, 083, 830 20, 864, 075	2, 837 (3) (6) (5) (8)
1929 1927 1925 1928 1921	1 88	6, 970 6, 463 5, 585 4, 686 3, 707	6, 661, 235 6, 393, 675 5, 523, 708 4, 586, 991 3, 475, 487	43, 238, 392 40, 734, 599 29, 956, 962 29, 375, 224 29, 797, 291	64, 621, 192 57, 489, 652 45, 977, 902 42, 272, 470 41, 190, 179	21, 382, 800 16, 755, 053 16, 020, 940 12, 897, 246 11, 392, 888	1,048 1,190 1,158 (⁰) (⁵)
1919	59 74	4, 168 3, 505 3, 212 2, 473 1, 989	3, 662, 830 1, 659, 070 1, 306, 342 930, 171 628, 033	33, 350, 481 12, 200, 884 10, 354, 592 6, 594, 976 4, 499, 416	47, 263, 990 17, 602, 543 15, 697, 959 10, 086, 863 6, 799, 425	13, 913, 509 5, 401, 659 5, 343, 367 3, 491, 887 2, 300, 009	1, 642 1, 873 2, 306 1, 891 1, 803

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

ITEM	United States	Alabama	Cali- fornia	Illinois	Louisi- ana	Mary- land	Massa- chusetts	New Jersey	New York	Ohio	Pennsyl- vania	Virginia	Other States 1
Number of establishments 2 Proprietors and firm members	119 19	3	9	9 2	5 1	3	6 3	6	27	11	9	7	24
Persons reported by manufacturing establishments, total 3	12, 703	1, 153	352	1,007	1,034	112	520	269	3, 063	1, 136	1, 199	603	2, 255
Salaried officers of corporations 3 Manufacturing: Salaried employees 3	140 896	-	6	12 83	1	4 17	5 47	7 26	33 175		11 83	_	26 151
Wage earners (average for the year) 4. Distribution. Construction. Other.	11.081	1, 101	282 15 3	843	926	87	455 13	210	2, 685	959	1,012	518 37	2,003
Salaries and wages, total 3	\$14, 933, 981	\$1, 141, 853	\$400, 954	\$1, 346, 487	\$972, 805	\$133, 617	\$625, 176	\$407, 276	\$3, 946, 370	\$1, 554, 741	\$1, 56 4, 4 66	\$552, 505	\$2, 287, 731
Salaried officers ^a	1 673 734	97, 476 1, 007, 777 15, 000	26, 009 65, 737 280, 440 25, 019 3, 749	153, 310 913, 387 173, 321	144, 393 732, 484 54, 128	28, 286 72, 332	75, 964 459, 296	73, 583 177, 237	353, 927 2, 893, 723 263, 438	163,894 1,050,222	187, 203 1, 003, 751	66, 526 366, 000 46, 179	1,671,952
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	53, 964, 442	6, 110, 410	1, 784, 180	3, 496, 700	3, 702, 645	310, 339	1, 986, 978	1, 057, 372	14, 304, 508	5, 601, 043	4, 391, 502	1, 964, 912	9, 253, 853
Materials, supplies, and containers Fuel Purchased electric energy Contract work	136 331	6, 081, 294 5, 136 23, 980	1, 772, 511 1, 179 10, 490	3, 375, 160 12, 388 38, 378 70, 774	7,086 14,302	740	6, 116 17, 280	5,719		22, 181	17, 057	7, 980	
Value of products	85, 776, 374 31, 811, 932	7, 905, 311 1, 794, 901	2, 829, 174 1, 044, 994	5, 833, 900 2, 337, 200	5, 744, 167 2, 041, 522	620, 413 310, 074	3, 773, 294 1, 786, 316	1, 911, 497 854, 125	23, 040, 261 8, 735, 753	8, 121, 086 2, 520, 043	7, 915, 090 3, 523, 588	2, 766, 862 801, 950	15, 315, 31 9 6, 061, 466

¹ See General Explanations—Definition of establishment.
2 See General Explanations—Wage earners and wages.
3 Figures for years prior to 1935 do not include cost of contract work.
4 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.
5 Not called for on schedule.
6 Data not available.

¹ Arkansas, 2 establishments; Georgia, 2; Indiana, 2; Kentucky, 1; Mississippi, 1; Missouri, 4; North Carolina, 1; Oregon, 1; South Carolina, 1; Tennessee, 1; Texas, 2; See General Explanations—Definition of establishment.

3 See General Explanations—Persons engaged—general classification.

4 See General Explanations—Wage earners and wages.

5 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.

Table 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Paper Bags, Except Those Made in Paper Mills industry, all products, total value	\$85, 776, 374	\$82, 458, 263
Paper bags made in this industry Miscellaneous products not classifiable Other products (not classified in this industry) Receipts for contract and repair work	78, 111, 033 1 878, 958 2 6, 786, 383	78, 756, 179 3, 674, 896 27, 188
Paper bags, aggregate value	96, 570, 838	97, 483, 720
Paper bags made in this industry Paper bags made as secondary products in other industries, total	78, 111, 033 18, 459, 805	78, 756, 179 18, 727, 541
Made in other industries within the "Converted paper products" subgroup— Made in the "Paper and paperboard mills" industry————— Made in other industries outside the Paper and Allied Products group————————————————————————————————————	5, 932, 395 6, 755, 007 5, 772, 403	(3)

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

	Produced in the industry	Produced in other industries within the Converted Paper Products subgroup	Produced in the Paper and Paperboard Mills industry	Produced in other industries outside the Paper and Allied Products group	Aggregate	1937	
Total value	\$78, 111, 033	\$5, 932, 395	\$6, 755, 007	1 \$5, 772, 403	\$96, 570, 838	\$97, 483, 720	
Bags, paper ² ; Kraft Glassine Other	66, 927, 833 3, 790, 359 7, 392, 841	3, 825, 807 1, 551, 830 554, 758	5, 129, 774 158, 484 1, 466, 749	3, 000 20, 150 5, 749, 253	75, 886, 414 5, 520, 823 15, 163, 601	79, 061, 203 5, 628, 499 12, 794, 018	

¹ Principally from "Textile bags—not made in textile mills" industry.

² In addition, bags are made to some extent of transparent sheets of plastic materials (cellulose, etc.), which are classified as products of the "Fabricated plastic products, not elsewhere classified" industry.

Table 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

		1.00	C CIBRERAL.											
	Average number		NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
STATE	employed during year	January	February	March	April	Мау	June	July	August	September	October	November	December	
United States: 1939 1937 1929	10.360 l	10, 440 10, 387 6, 550	10, 287 10, 600 6, 840	10, 758 10, 802 7, 136	10, 592 10, 957 7, 295	10, 500 10, 825 7, 098	10, 511 10, 785 7, 072	10, 813 10, 538 6, 998	11, 019 10, 456 6, 979	11, 725 10, 308 6, 930	12, 180 10, 139 7, 125	12, 142 9, 517 6, 931	12, 005 9, 003 6, 687	
Alabama California Illinois Louisiana	1, 101 282 843 926	996 262 799 965	828 271 821 876	1, 067 283 890 923	881 262 873 912	820 277 847 902	906 271 824 890	1, 108 271 827 884	1, 249 268 785 925	1, 371 276 807 966	1,360 315 850 959	1, 312 314 894 939	1,309 311 895 975	
Maryland Massachusetts Missouri New Jersey	87 455 189 210	87 416 187 171	71 434 214 178	81 450 216 176	77 436 165 187	78 428 165 206	79 435 168 203	81 446 157 227	85 461 153 244	100 483 187 238	105 488 214 243	100 497 230 227	105 487 215 218	
New YorkOhioPennsylvaniaVirginia		2, 492 878 1, 009 409	2, 532 899 994 414	2, 604 908 995 418	2, 651 951 999 430	2, 646 948 1, 000 422	2, 573 944 1, 002 450	2,609 907 992 497	2, 643 886 988 540	2, 739 955 1, 020 659	2, 901 1, 071 1, 030 687	2, 927 1, 091 1, 059 618	2, 898 1, 072 1, 051 675	

¹ Principally value of merchandise bought and sold in same condition.
² Principally value of other converted paper products such as cloth-lined paper, envelopes, twisted paper (cord, twine, etc.), and waterproof wrapping paper.
³ No data.

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939

	1939
Number of establishments: Total for the industry Reporting expenditures for plant and equipment.	119 87
Value of products: Total for the industry	\$85, 776, 374 75, 603, 132
Expenditures for plant and equipment: Total for the industry	1, 966, 326
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land. Expenditures unclassified.	616, 819 1, 209, 900 139, 253 354

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 and 1929

		10-0
	1939	1929
Number of establishments	119 118	95 93
Prime movers, aggregate: Number	21 2,837	11 1, 048
Prime movers, driving generators, total— Number	12 1,580	1 11 1 1, 048
Steam engines— Number Horsepower Steam turbines—	5 645	1 8 1 810
Number Horsepower Diesel and semi-Diesel engines—	1 250	1 1 1 150
Number Horsepower Other internal-combustion engines *— Number		1 2 1 88
Horsepower Hydroturbines and water wheels— Number Horsepower	6 685	
Prime movers not driving generators, total— Number Horsepower	9 1, 257)
Steam engines— Number Horsepower	3 113	(3)

Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$8, 259, 153	\$8, 654, 960
Finished products	3, 625, 158 4, 633, 995	3, 476, 191 5, 178, 769
End of year, total	9, 528, 769	10, 537, 773
Finished products	3, 965, 084 5, 563, 685	4, 507, 588 6, 030, 185
Value of products for the industry, total	85, 776, 374	82, 458, 263
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand). Value for establishments not reporting inventories	85, 491, 533 284, 841	82, 040, 959 417, 304

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 and 1929—Continued

	1939	1929
Prime movers—Continued. Prime movers not driving generators—Continued. Hydroturbines and water wheels— Number.	6	1
Horsepower	1, 144	} (3)
Generators, kilowatt rating, total	1,048	305
Generators, driven by— Steam engines, kilowatt rating————————————————————————————————————	433 177 438	(3)
Electric motors, total: Number Horsepower	6, 679 19, 933	3, 43 7 12, 756
Driven by purchased energy— Number Horsepower Driven by energy generated in establishments report-	5, 992 17, 173	3, 250 12, 368
ing— Number————————————————————————————————————	687 2, 760	187 388
Electric energy (kilowatt-hours): Generated in plant Sold. Purchased.	4, 164, 402 140, 126 20, 451, 388	(4) (3) 16, 746, 494

¹ Includes data for prime movers not driving generators.
1 Gas, gasoline, etc.
2 Not called for on schedule.
4 Data not available.

FIBER CANS, TUBES, AND SIMILAR PRODUCTS

[A preliminary report for this industry was issued December 31, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of fiber cans, cones, mailing cases, tubes, and similar products, such as cores, and ribbon blocks and spools with or without metal ends.

Statistics for prior census years.—This industry was first established as a separate classification at the

census for 1939. The statistics for 1937 were a part of the former industries "Boxes, paper, not elsewhere classified" and "Synthetic-resin, cellulose-plastic, vulcanized-fiber, and molded and pressed pulp fabricated articles, not elsewhere classified." A retabulation was made of the 1937 statistics to obtain figures comparable with those for 1939. No revisions were made, however, in the statistics for earlier years.

TABLE 1 .- SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Number of establish- ments ¹	Wage earners (average for the year) ²	Wores	Cost of materials, supplies, fuel, purchased electric energy, and contract work	Value of products	Value added by manufac- ture ³	Horsepower of prime movers
1939	116	6, 637	\$6, 962, 529	\$13, 952, 397	\$33, 345, 334	\$19, 392, 937	6, 508
	100	6, 104	6, 347, 064	14, 088, 679	32, 791, 570	18, 702, 891	(5)

See General Explanations—Definition of establishment.
See General Explanations—Wage earners and wages.
Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.
No comparable data for years prior to 1937.
Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

ITEM	United States	Dela- ware	Massa- chusetts	Michigan	New Jersey	New York	Ohio	Pennsyl- vania	Rhode Island	Other States 1
Number of establishments 2 Proprietors and firm members	116 40	7	12 2	6 5	14 5	21 6	9 1	· 12	5 6	30 9
Persons reported by manufacturing establishments, total 3	7, 790	512	571	156	1, 241	1,802	379	288	353	2, 488
Salaried officers of corporations 3	109	7	16	1	19	22	12	11	5	16
Salaried employees 3 Wage earners (average for the year) 4 Distribution Construction	655 6, 637 372	52 437 16	44 499 11	15 133 6	147 1,050 21	110 1,466 204	23 317 27	16 249 12	34 310 4	2, 176 71 4
Other	9		1	1						7
Salaries and wages, total 3	\$9,657,697	\$698, 423	\$594, 957	\$175, 931	\$1, 578, 232	\$2, 686, 382	\$474, 225	\$334, 395	\$398,000	\$2, 717, 152
Salaried officers 3 Manufacturing:		40, 988	59, 306	5, 600	59, 187	125, 191	93, 266	31, 406	40, 318	92, 444
Salaries 3 Wages Distribution Constraction	6, 962, 529 849, 550 16, 157	95, 625 530, 524 31, 286	66, 782 445, 363 22, 362	26, 790 132, 022 11, 206	261, 983 1, 214, 442 35, 102 7, 518	249, 286 1, 826, 241 485, 664	39, 325 302, 166 39, 468	39, 591 239, 088 24, 310	48, 359 299, 798 9, 525	444, 459 1, 972, 885 190, 627 8, 639 8, 098
Other	9, 555		1, 144	313						8,098
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	13, 952, 397	782, 435	766, 907	338, 971	2, 829, 828	4, 097, 971	568, 681	635, 653	308, 798	3, 623, 153
Materials, supplies, and containers Fuel	13, 210, 251 464, 672 247, 613 29, 861	653, 612 107, 151 21, 672	703, 556 46, 734 14, 740 1, 877	335, 857 461 2, 653	2, 679, 082 97, 374 53, 372	3, 950, 206 88, 748 59, 017	527, 450 1, 791 11, 456 27, 984	618, 570 7, 309 9, 774	286, 230 10, 245 12, 323	3, 455, 688 104, 859 62, 606
· · · · · · · · · · · · · · · · · · ·	,	1, 894, 309 1, 111, 874		733, 453 394, 482	6, 454, 288 3, 624, 460	9, 707, 959 5, 609, 988	1, 424, 656 855, 975	1, 477, 822 842, 169	894, 157 585, 359	9, 015, 830 5, 392, 677

¹ California, 1 establishment; Connecticut, 2; District of Columbia, 1; Georgia, 1; Illinois, 7; Indiana, 1; Kentucky, 1; Louisiana, 1; Maine, 1; Maryland, 1; Minnesota 1; Missouri, 4; New Hampshire, 1; North Carolina, 2; South Carolina, 1; Tennessee, 1; Vermont, 1; Wisconsin, 2.

² See General Explanations—Definition of establishment.

³ See General Explanations—Persons engaged—general classification.

⁴ See General Explanations—Persons engaged—general classification.

⁵ See General Explanations—Wage earners and wages.

⁶ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Fiber Cans, Tubes, and Similar Products industry, all products, total value	\$33, 345, 334	\$32, 791, 570
Fiber cans, tubes, and similar products made in this industry	28, 367, 887 1, 116 1 4, 976, 331	25, 907, 577 6, 883, 993
Fiber cans, tubes, and similar products, aggregate value	34, 123, 565	35, 852, 204
Fiber cans, tubes, and similar products made in this industry	28, 367, 887	25, 907, 577
industries, total	5, 755, 678	9, 944, 627
Made in other industries within the "Converted paper products" subgroup. Made in the "Paper and paperboard mills" industry	2, 151, 883 886, 348 2, 717, 447	(2)

¹ Principally value of bottle caps, boxes and containers made of paper, and laminated sheets, rods, plates, etc., made of plastics.

² No data.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

PRODUCT	Produced in the industry	Produced in other industries within the Converted Paper Products subgroup	Produced in the Paper and Paper- board Mills industry	Produced in other industries outside the Paper and Allied Products group		1937
Total value	\$28, 367, 887	\$2, 151, 883	\$886,348	1 \$2, 717, 447	\$34, 123, 565	\$35, 852, 204
Fiber and fiber and metal combination: Bottles. Cans. Drums and mailing cases. Tubes and cores. Bobbins, reels, ribbon blocks, spools, etc., fiber. Cones, fiber. Vulcanized fiber: Rods, tubes, and other unfinished forms. Laminated sheets and plates. Hollow ware (boxes, cans, pails, etc.) Other vulcanizing fiber.	12, 006, 079 782, 241 5, 954, 272 808, 375 2, 733, 537 2, 069, 366 1, 661, 227 1, 272, 003	1, 427, 800 157, 610 431, 528 31, 659 1, 244	803, 831 82, 517	621, 403 1, 242, 425	864, 543 14, 805, 539 939, 851 6, 468, 317 840, 034 2, 734, 781 2, 690, 769 2, 903, 652 1, 448, 515 427, 564	17, 764, 951 (2) 6, 407, 833 (2) (2) 2, 948, 657 4, 767, 728 2, 044, 259 1, 918, 776

¹ Principally from the "Fabricated plastic products, not elsewhere classified" and the "Tin cans and other tinware, not elsewhere classified" industries.
2 Not called for on schedule.

TABLE 5.-WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See General Explanations—Disclosure of data for individual establishments]

	Average number		NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—											
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December	
United States: 1939 1937	6, 637 6, 104	6, 237 5, 864	6, 27 <i>5</i> 6, 031	6, 398 6, 180	6, 398 6, 455	6, 327 6, 738	6, 383 6, 818	6, 478 6, 334	6, 564 6, 220	6, 675 5, 970	7, 240 5, 883	7, 444 5, 553	7, 220 5, 200	
Delaware Illinois. Massachusetts Michigan Missouri.	428 499	409 366 487 130 249	407 375 467 128 258	410 378 503 128 269	413 392 507 130 273	417 410 488 125 265	415 427 486 130 278	422 423 500 125 295	417 463 485 133 297	423 453 510 139 291	485 503 574 145 310	512 498 498 143 327	519 414 484 144 308	
New Jersey	1,050 1,466 317 249 310	1,021 1,322 288 241 286	1,046 1,340 285 228 287	1,028 1,411 302 237 284	1, 014 1, 415 305 232 273	995 1, 415 301 229 271	1,012 1,414 299 237 277	1,029 1,436 298 241 272	1, 028 1, 460 308 242 285	1,047 1,468 313 246 319	1, 109 1, 623 359 269 346	1, 186 1, 647 385 286 420	1, 085 1, 639 359 301 400	

Table 6.—Expenditures for Plant and Equipment: 1939 |

	1939
Number of establishments: Total for the industry Reporting expenditures for plant and equipment	116 81
Value of products: Total for the industry	\$33, 345, 334 27, 544, 092
Expenditures for plant and equipment: Total for the industry	985, 589
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.	89, 240 836, 416 59, 933

Table 8.—Prime Moyers, Motors, Generators, and Electric Energy: 1939^{1}

	1939
Number of establishments	116 116
Prime movers, aggregate: Number Horsepower	6, 508
Prime movers, driving generators, total— Number Horsepower	13 5, 977
Steam engines— Number Horsepower Steam turbines—	1,700
Number Horsepower Diesel and semi-Diesel engines—	4, 162
Number Horsepower Other internal-combustion engines 2— Number	60 1
HorsepowerHydroturbines and water wheels—	15
Number Horsepower	40
Prime movers, driving generators, ordinarily idle (included above), horsepower	700
Prime movers not driving generators, total— Number Horsepower	8 531
Steam engines— Number Horsepower	6 491

Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$4, 586, 452	\$4, 714, 825
Finished products	1, 973, 258 2, 613, 194	2, 356, 864 2, 357, 961
End of year, total	5, 066, 476	5, 813, 471
Finished products	1, 827, 962 3, 238, 514 33, 345, 334	2, 708, 710 3, 134, 761 32, 791, 570
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	29, 827, 662 3, 517, 672	32, 529, 359 262, 211

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 1—Continued

	1939
Prime movers—Continued. Prime movers not driving generators—Continued. Other internal-combustion engines 2— Number Horsepower Hydroturbines and water wheels— Number	1 20 1 20
Horsepower Prime movers not driving generators, ordinarily idle (included above), horsepower	128
Generators, kilowatt rating, total	. 4,372
Generators, driven by— Steam engines, kilowatt rating Steam turbines, kilowatt rating Diesel and semi-Diesel engines, kilowatt rating Other internal-combustion engines, kilowatt rating Hydroturbines and water wheels, kilowatt rating Generators, ordinarily idle (included above), kilowatt rating	1, 200 3, 100 32 10 30 550
Electric motors, total: Number Horsepower	5, 350 24, 201
Driven by purchased energy— Number Horsepower Driven by energy generated in establishments reporting—	4, 149 15, 990
Number Horsepower	1, 201 8, 211
Electric energy (kilowatt-hours): Generated in plant	12, 357, 412 14, 376 17, 382, 947

¹ Comparable data for 1929 not available.
2 Gas, gasoline, etc.

PAPERBOARD CONTAINERS AND BOXES NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 30, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of folding and set-up boxes; corrugated and solid-fiber shipping containers; decorated, lithographed, lacquered, and fancycovered paper boxes, and other paper and paperboard boxes and containers.

Statistics for prior census years.—This industry was established as a separate classification at the census for 1939. The figures for 1937 were subtracted from statistics for the former industry "Boxes, paper, not elsewhere classified" and are comparable with the figures for 1939. There are, however, no comparable figures for earlier years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Num- ber of estab- lish- ments ¹	Wage earners (aver- age for the year) 2	Wages	Cost of ma- terials, sup- plies, fuel, purchased electric en- ergy, and contract work		Value added by manu- facture	Horse- power of prime movers
1939	1, 338	62, 530	\$63, 806, 013	\$213, 838, 608	\$382,709,595	\$168.870.987	8, 354
1937 4	1, 226				i .	163, 376, 706	'

- 1 See General Explanations—Definition of establishment.
- 2 See GENERAL EXPLANATIONS-Wage earners and wages.
- 3 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS-Value added by manufacture.
- 4 No comparable figures for years prior to 1937.
- ⁵ Not called for on schedule.

Table 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United States	Arkan- sas	Cali- fornia	Colo- rado	Connect- icut	Florida	Georgia	Illinois	Indiana	Iowa	Kansas	Ken- tucky
Number of establishments ¹ Proprietors and firm members	1, 338 497		54 24	7	41 8		15	119		12	6	6
Persons reported by manufacturing estab- lishments, total 2	75, 376	128	2, 357	166	2, 385	117	805	7, 421	3, 095	336	608	275
Salaried officers of corporations 2 Manufacturing:	1, 763	6	57	8	59	7	15	154	50	18	3	6
Salaried employees 3. Wage earners (average for the year) 3. Distribution. Construction. Other.	62, 530	102 9	184 1,907 205 2 2	20 121 15 2	2,003	96		585 6, 106 524 42 10	2, 419 283 8	28 268 22	487	227 12
Salaries and wages, total 2	\$95, 873, 427	\$126, 454	\$3, 566, 996	\$213, 327	\$3, 172, 620	\$82, 299	\$881, 512	\$9, 595, 521	\$3, 851, 957	\$368, 957	\$728, 460	\$398, 629
Salaried officers 2 Manufacturing:	10, 841, 974	25, 780	334, 319	38, 506	374, 425	7, 611		1, 124, 460		80, 679		
Manuacturing: Salaries ³ Wages. Distribution. Construction. Other.	63, 806, 013 9, 930, 874 434, 830	72, 752	2, 387, 372	25, 847 119, 402 26, 548 3, 024	2, 118, 520	12, 262 53, 724 7, 173 1, 529	382, 825 250, 404	1, 070, 435 6, 220, 837 1, 087, 730 78, 789 13, 270	2, 519, 265 479, 119 2, 283	38, 262 210, 394 36, 772 2, 850	99, 119 504, 376 83, 858 10, 546 2, 811	61, 391
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	213, 838, 608	282, 924	8, 185, 711	417, 692	5, 438, 188	469, 734	2, 789, 588	22, 044, 799	·	991, 941	2, 327, 834	953, 558
Materials, supplies, and containers Fuel		278, 140 - 1, 500 3, 284	8, 074, 274 24, 890 57, 234 29, 313	409, 306 3, 117 5, 269	5, 298, 777 66, 726 45, 185 27, 500	467, 574 2, 160	2, 755, 852 18, 102	21, 670, 988 130, 979 210, 692 32, 140				
Value of products. Value added by manufacture 4	382, 709, 595 168, 870, 987	507, 749 224, 825	14, 989, 127 6, 803, 416	805, 417 387, 725	11, 151, 914 5, 713, 726	700, 499 230, 765	4, 132, 939 1, 343, 351	39, 316, 737 17, 271, 938	17 655 000		' 1	

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

Number of establishments ¹ . Proprietors and firm members.	Louisians	Maine	Marylan	Massa		3.5:		New	I			
Proprietors and firm members		1		chusett		m Minne- sota	Missour		New Jersey	New York	North Carolina	Ohio
				25 1 8		29 14 16	5 4	6 7 9 1	67 15	329 131	21	75 6
Persons reported by manufacturing establishments, total 2	73	4 15	7 1, 38	86 6, 3	06 3, 2	83 465	3, 12	0 146	5, 375	15, 289	964	5, 962
Salaried officers of corporations 2 Manufacturing: Salaried employees 2 Wage earners (average for the year) 3 Distribution Construction	1: 62 33	7 13	8 10 4 1, 17	71 5, 15 71 4	32 2 25 2, 9	26 24 11 27 43 361 92 49	220	3 19 4 114	108 428 4, 444 349 22 24	508 997 12, 557 1, 189 34	· 46 853 43	5, 073
Salaries and wages, total 2	\$868, 579	\$156,98	0 \$1, 528, 59	95 \$7, 870, 10		57 \$604, 967	\$3, 981, 427	\$161, 595	\$7, 357, 036	\$19, 782, 834	\$1, 043, 87 3	\$8, 284, 190
Salaried officers 2	143, 29	-			_		463, 816	-	868, 797	2, 873, 164	163, 222	
Manufacturing: Salaries 2 Wages Distribution Construction Other	128, 08 535, 66 61, 53	5 109,06	9 1, 016, 58	37 5, 183, 09 34 862, 28	98 3, 502, 98 35 251, 17 92 19, 31	39 323, 244 70 89, 830 18	2, 698, 739 405, 529 8, 324	98, 344	869, 415 4, 770, 775 751, 935 37, 864 58, 250	1, 884, 578 12, 587, 684 2, 365, 895 66, 909 4, 604	93, 860 698, 974 87, 354 203 260	1, 030, 430 5, 970, 292 616, 756 31, 282
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.	2, 675, 059	226, 82	9 3, 520, 43	30 16, 694, 53	13, 490, 22	27 976, 975	9, 019, 150	387, 413	16, 204, 664	34, 939, 314	2, 393, 942	19, 889, 689
Materials, supplies, and containersFuel Purchased electric energy Contract work	2, 651, 379 7, 640 16, 040	3, 13	4 22, 98	16, 338, 96 151, 36 184, 48 19, 78	32 60, 57 59 76, 43	79 11, 157 36 12, 084	36, 967 80, 911	2, 551 3, 597	15, 883, 885 126, 709 165, 445 28, 625	34, 174, 949 245, 908 420, 672 97, 785	2, 354, 735 18, 543 20, 664	19, 421, 349 159, 568 159, 174 149, 598
Value of products	4, 537, 551 1, 862, 492	494, 91 268, 08	6, 114, 94 2, 594, 51	29, 616, 61 12, 922, 07	20, 850, 98 7, 360, 78	1, 890, 236 913, 261	16, 045, 365 7, 026, 215	740, 303 352, 890	29, 793, 025 13, 588, 361	66, 885, 977 31, 946, 663	4, 500, 404 2, 106, 462	34, 912, 792 15, 023, 103
ITEM	0	klahoma	Oregon	Pennsyl- vania	Rhode Island	Tennessee	Texas	Virginia	Wash- ington	West Virginia	Wiscon- sin	Other States
Number of establishments ¹ Proprietors and firm members		4	9	150 113	13 5	14 3	17 2	17 11	13 2	10 4	30 8	15 4
Persons reported by manufacturing establish total 2	ments,	178	164	7, 305	523	827	505	846	598	703	2, 106	744
Salaried officers of corporations ² Manufacturing: Salaried employees ² Wage earners (average for the year) ³ Distribution		5 10 140 23	9 16 133 6	166 491 6, 201 418 28	15 34 450 23 1	19 39 742 26	15 49 404 35 2	13 62 726 43 2	42 511	59 615 19		20 65 590 59 9
OtherSalaries and wages, total 2		\$246, 875	\$246, 022	\$8, 146, 881	\$523, 022	\$883, 831	\$578, 278	\$828, 446			\$2, 876, 271	\$859, 179
Salaried officers 2. Manufacturing: Salaries 2. Wages. Distribution. Construction. Other.		52, 172 21, 983 133, 251 35, 566 3, 903	25, 510 29, 868 183, 330 7, 314	1, 002, 263 813, 435 5, 523, 916 770, 620 36, 309 338	80, 733 56, 190 351, 450 33, 190 1, 459	72, 110 72, 173 632, 480 54, 523 2, 545	44, 656 120, 465 337, 358 72, 367 3, 432	56, 801 100, 830 602, 611 65, 555 2, 649	80, 601 591, 037 34, 377	99, 255 697, 071 40, 684	273, 900 415, 659 1, 962, 442 196, 663 27, 607	122, 204 103, 955 487, 536 136, 350 8, 436 698
Cost of materials, supplies, containers, fuel, pure electric energy, and contract work, total	chased	748, 898	334, 608	16, 352, 824	435, 319	2, 137, 464			2, 347, 587			
Materials, supplies, and containers		739, 249 3, 388 6, 261	326, 522 2, 026 6, 060	15, 898, 223 124, 918 179, 715 149, 968	400, 988 5, 729 6, 462 22, 140	20, 369 15, 861	1, 502, 773 6, 667 14, 499 70	2, 511, 013 15, 665 21, 411	9, 370 9, 101 1, 667	21, 784 18, 454 4, 557	74, 568 127	20, 903 15, 685 90
Value of products	1	, 280, 655 531, 757	766, 283 431, 675	30, 481, 468 14, 128, 644	1, 217, 413 782, 094	3, 824, 535 1, 687, 071	2, 752, 727 1, 228, 718	4, 286, 249 1, 738, 160	4, 358, 057 2, 010, 470	4, 825, 477 1, 884, 985	12, 553, 385 5, 065, 128	3, 608, 760 1, 378, 117

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

TABLE 9. VALUE OF TROPOGEN TOWN		
	1939	1937
Paperboard Containers and Boxes Not Elsewhere Classified industry, all products, total value.	\$382, 709, 595	\$394, 786, 932
Paperboard containers and boxes made in this industry	367, 200, 547 1 813, 165 2 14, 464, 952 230, 931 425, 269, 447	376, 652, 294 492, 609 17, 367, 526 274, 503 424, 580, 993
Paperboard containers and boxes made in this industry	367, 200, 547 58, 068, 900	376, 652, 294 47, 928, 699
Made in other industries within the "Converted paper products" subgroup Made in the "Paper and paperboard mills" industry Made in other industries outside the Paper and Allied Products group	6, 324, 182 48, 778, 888 2, 965, 830	(3)

Principally value of merchandise bought and sold in same condition.
Principally value of bags, fiber cans, labels, dishes and spoons, cups, and other miscellaneous converted paper products.
No data.

See GENERAL EXPLANATIONS—Definition of establishment.
See GENERAL EXPLANATIONS—Persons engaged—general classification.
See GENERAL EXPLANATIONS—Wage earners and wages.
Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by purchased electric energy. manufacture.

⁶ Alabama, 1 establishment; Delaware, 1; District of Columbia, 2; Nebraska, 3; South Carolina, 3; South Dakota, 1; Utah, 2; Vermont, 2.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

	Produced in the industry	Produced in other industries within the Converted Paper Products subgroup	Produced in the Paper and Paperboard Mills industry	Produced in other industries outside the Paper and Allied Products group	A ggregate	1937
Total value	\$367, 200, 547	\$6, 324, 182	\$48, 778, 888	1 \$2, 965, 830	\$425, 269, 447	\$424, 580, 993
Boxes and containers: Shipping containers, corrugated Shipping containers, solid-fiber Cartons and folding boxes Set-up paper boxes. Decorated, lithographed, lacquered, and fancy-covered boxes. Other boxes and containers.	166, 565, 903 18, 511, 111 102, 439, 446 72, 809, 455 5, 697, 996 1, 176, 636	1,066,825 6,208 937,583 391,276 253,763 3,668,437	19, 238, 810 7, 724, 020 21, 589, 139 95, 962 130, 957	410, 621 1, 906, 565 644, 144 4, 500	187, 282, 159 26, 241, 429 120, 872, 733 73, 940, 837 5, 951, 759 4, 980, 530	191, 757, 522 29, 202, 396 119, 062, 925 77, 945, 275 2, 836, 922 3, 715, 953

 $^{{\}tt 1\ Principally\ from\ "Printing,\ publishing,\ and\ allied\ industries"\ group\ and\ "Wooden\ containers"\ subgroup.}$

Table 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

	Average number		NUL	BER RECE	IVING PAY	DURING N	ORMAL PAY	7-ROLL PER	IOD ENDE	NEAREST 1	5TH OF MC	NTH—	
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939 1937	62, 530 62, 620	57, 283 60, 879	58, 224 61, 687	59, 433 63, 412	59, 295 63, 959	58, 670 63, 234	59, 426 62, 806	60, 466 62, 012	62, 668 62, 583	65, 778 63, 552	69, 568 64, 656	71, 062 62, 881	68, 487 59, 778
Arkansas California Colorado Connecticut Florida	102 1, 907 121 2, 003 96	1, 724 90 1, 976 76	102 1,720 93 1,917 88	103 1, 782 100 1, 887 88	108 1,791 113 1,880 89	101 1,786 107 1,922 82	89 1,829 130 1,940 91	87 1,889 131 1,897 96	94 1, 943 129 1, 962 91	103 2, 037 134 2, 053 96	115 2, 159 146 2, 159 112	118 2, 114 154 2, 236 121	109 2, 109 127 2, 202 124
Georgia Illinois Indiana Iowa Kansas	521 6, 106 2, 419 268 487	468 5, 634 2, 304 251 440	478 5, 667 2, 304 248 439	472 5, 710 2, 339 240 444	492 5, 660 2, 335 234 454	513 5, 561 2, 251 230 459	495 5, 695 2, 196 233 461	505 5, 901 2, 344 254 469	515 6, 244 2, 419 266 493	557 6, 584 2, 522 289 517	592 6, 732 2, 658 321 561	573 7, 153 2, 761 336 554	588 6, 737 2, 599 311 551
Kentucky	227 622 134 1, 171 5, 125	219 562 109 1, 058 4, 777	213 566 121 1,067 4,973	221 616 119 1, 123 5, 065	211 625 116 1,125 4,858	206 585 114 1, 129 4, 888	206 650 127 1, 139 4, 838	202 645 141 1, 128 4, 924	211 643 160 1, 197 5, 017	237 663 150 1, 231 5, 298	265 639 160 1, 280 5, 719	266 643 155 1, 292 5, 689	264 630 136 1, 288 5, 450
Michigan Minnesota Missouri Nebraska New Hampshire	2, 943 361 2, 664 199 114	2, 558 331 2, 582 186 121	2, 611 329 2, 550 188 121	2, 672 330 2, 590 187 125	2, 827 325 2, 579 188 117	2, 808 333 2, 484 197 108	2, 905 336 2, 578 195 108	3, 023 350 2, 623 193 110	3, 111 379 2, 670 193 114	3, 165 384 2, 747 204 113	3, 236 410 2, 791 231 110	3, 229 432 2, 884 214 113	3, 171 397 2, 884 209 108
New Jersey New York North Carolina Ohio Oklahoma	4, 444 12, 557 853 5, 073 140	4, 051 11, 542 706 4, 617 128	4, 221 11, 708 732 4, 745 133	4, 390 11, 989 755 4, 817 132	4, 371 11, 852 773 4, 940 130	4, 042 11, 828 781 4, 929 138	4, 024 11, 996 798 4, 897 141	4, 027 12, 113 805 4, 891 162	4, 357 12, 521 894 4, 957	4, 687 13, 212 973 5, 139 138	5, 145 14, 035 1, 028 5, 486 146	5, 184 14, 189 1, 030 5, 749 143	4, 825 13, 703 957 5, 710
Oregon Pennsylvania Rhode Island South Carolina Tennessee	133 6, 201 450 36 742	130 5, 697 370 3 712	5, 817 409 5 706	5, 962 442 4 702	126 5, 937 442 3 695	125 5, 898 394 5 711	133 5, 928 406 16 713	131 5, 996 454 22 732	133 6, 165 486 60 719	132 6, 516 501 80 758	148 6,801 479 87 800	141 7,009 540 72 835	143 6, 683 476 74 821
Texas. Virginia Washington West Virginia Wisconsin	404 726 511 615 1,700	347 652 449 507 1,518	362 648 458 507 1,551	367 665 471 520 1,576	375 646 461 518 1,569	395 664 476 518 1,570	395 688 535 536 1,626	361 712 533 582 1,678	356 771 558 651 1,679	410 774 570 665 1, 760	490 826 603 777 1,910	511 851 508 823 2,025	476 818 507 777 1, 948

	1939
Number of establishments: Total for the industry Reporting expenditures for plant and equipment	1, 338 836
Value of products: Total for the industry Reporting expenditures for plant and equipment Expenditures for plant and equipment:	\$382, 709, 595 322, 325, 136
Total for the industry	11, 039, 775
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land. Expenditures unclassified.	3, 336, 026 6, 838, 161 831, 770 33, 818

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: $1939^{\,1}$

	1939
Number of establishments	1, 338 1, 330
Prime movers, aggregate: Number. Horsepower.	86 8, 354
Prime movers, driving generators, total— Number.————————————————————————————————————	46 6, 487
Steam engines— Number. Horsepower. Diesel and semi-Diesel engines—	36 5, 627
Number Horsepower Horsepower Other internal combustion engines 2—	
Number Horsepower Hydroturbines and water wheels—	70
Number Horsepower	300
Prime movers, driving generators, ordinarily idle (included above), horsepower Prime movers not driving generators, total—	422
NumberHorsepower	1, 867
Steam engines— Number Horsepower	32 1, 277
Steam turbines— Number Horsepower Diesel and semi-Diesel engines—	5 255
Number	1 35

Table 6.—Expenditures for Plant and Equipment: 1939 | Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$41, 667, 711	\$39, 513, 846
Finished products	15, 611, 869 26, 055, 842	14, 256, 625 25, 257, 221
End of year, total	48, 652, 183	42, 915, 718
Finished products	17, 336, 801 31, 315, 382	16, 488, 638 26, 427, 080
Value of products for the industry, total	382, 709, 595	394, 786, 932
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand). Value for establishments not reporting inventories	376, 560, 673 6, 148, 922	378, 418, 061 16, 368, 871

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 —Continued

	1939
Prime movers—Continued.	
Prime movers not driving generators—Continued.	
Other internal-combustion engines 2— Number	1
Horsepower	20
Hydroturbines and water wheels—	
Number	1
Horsepower Prime movers not driving generators, ordinarily idle (included	280
above), horsepower	174
-	
Generators, kilowatt rating, total	4, 873
Generators, driven by	
Steam engines kilowatt rating	4, 227
Diesel and semi-Diesel engines, kilowatt rating	330
Other internal-combustion engines, kilowatt rating	35 281
Hydroturbines and water wheels, kilowatt rating	281 316
Generators, ordinarity tole (included above), and was rating	020
Electric motors, total:	41 400
Number	41, 630 118, 965
Horsepower	110, 500
Driven by purchased energy—	
Driven by purchased energy— Number	37, 590
Horsepower	105, 291
Number	4.040
Horsepower	13, 674
-	
Electric energy (kilowatt-hours): Generated in plant	7, 534, 688
Sold	732, 727
Purchased	91, 514, 972

¹ Comparable data for 1929 not available.
³ Gas, gasoline, etc.

DIE-CUT PAPER AND PAPERBOARD, AND CONVERTED CARDBOARD

[A preliminary report for this industry was issued December 11, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of bottle caps, converted cardboard, photograph mats, folders, etc., and index, jacquard, library, and other cut cards.

Statistics for prior census years.—At the census for 1939, "Die-cut paper and paperboard, and converted cardboard" was first established as a separate industry. Returns for 1937 for establishments primarily engaged in the production of die-cut paper and paperboard, and converted cardboard, previously classified in the former "Cardboard not made in paper mills" and "Card cutting and designing" industries, and establishments manufacturing bottle caps were retabulated to obtain figures comparable with those for 1939. No revisions were made, however, in the statistics for earlier years and therefore comparable figures are not available for years prior to 1937.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Num- ber of estab- lish- ments ¹	Wage earners (aver- age for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work		Value added by manu- facture 3	Horse- power of prime movers
1939	121	4, 354	\$5, 453, 990		\$33,263,907	\$17,194,485	2, 840
1937 ⁴	115	5, 046	6, 063, 598		34, 043, 743	18,524,203	(5)

1 See General Explanations—Definition of establishment.
2 See General Explanations—Wage earners and wages.
3 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.
4 No comparable figures for years prior to 1937.
5 Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

item .	United States	California	Illinois	Massachu- setts	New Jersey	New York	Ohio	Pennsyl- vania	Other States 1
Number of establishments 2 Proprietors and firm members	121 47	8 2	9	9 6	9	41 18	11 1	11 8	23
Persons reported by manufacturing establishments, total	l	169	1, 104	250	225	1,752	597	370	1, 203
Salaried officers of corporations 3 Manufacturing:		13	11	6	10	55	23	24	39
Salaried employees 3 Wage earners (average for the year) 4 Distribution Construction Other	534 4,354 568 19 14	18 111 21 2 4	91 875 123	37 190 15 2	16 178 15	170 1,296 228 3	34 463 75 2	40 271 33 2	128 970 58 8
Salaries and wages, total 3	\$8, 860, 835	\$246, 020	\$1, 597, 306	\$317,946	\$357,749	\$2,992,812	\$893, 045	\$535, 284	\$1, 920, 673
Salaried officers 3 Manufacturing: Salaries 3	1, 110, 723	40, 773	144,700	32, 380	80, 780	293, 588	187, 481	101, 512	229, 509
Distribution Construction Other		18, 142 135, 856 45, 897 2, 352 3, 000	209, 752 991, 436 238, 575	56, 964 197, 584 28, 512 2, 506	29, 434 193, 833 36, 496	354, 854 1, 809, 930 526, 995 7, 445	60, 490 496, 263 146, 111 2, 700	60, 839 295, 047 74, 915 2, 971	242, 311 1, 334, 041 105, 762 9, 050
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	16, 069, 422	356, 432	1,843,899	744, 823	433, 203	5, 319, 648	873, 618	845, 707	5, 652, 092
Materials, supplies, and containers Fuel. Purchased electric energy Contract work	15, 684, 323 127, 706 173, 898 83, 495	347,716 1,017 5,699 2,000	1,773,674 25,219 19,609 25,397	700, 619 10, 442 7, 219 26, 543	422, 143 1, 984 9, 076	5, 215, 522 35, 944 63, 266 4, 916	824, 887 9, 011 15, 081 24, 639	819, 185 23, 000 3, 522	5, 580, 577 21, 089 50, 426
Value of products	33, 263, 907 17, 194, 485	839, 729 483, 297	5, 294, 418 3, 450, 519	1, 289, 122 544, 299	1, 072, 566 639, 363	10, 807, 987 5, 488, 339	2, 427, 088 1, 553, 470	1, 794, 373 948, 666	9, 738, 624 4, 086, 532

¹ District of Columbia, 1 establishment; Indiana, 2; Iowa, 1; Kansas, 1; Michigan, 6; Missouri, 3; Nebraska, 1; Oregon, 1; Rhode Island, 3; West Virginia, 1; Wisconsin, 3. 1 See General Explanations—Persons engaged—general classification. 1 See General Explanations—Wage earners and wages. 1 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See General Explanations—Value added by surfacture. manufacture

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Die-Cut Paper and Paperboard, and Converted Cardboard industry, all products, total value.	\$33, 263, 907	\$34, 043, 743
Die-cut paper and paperboard and converted cardboard made in this industry Miscellaneous products not classifiable Other products (not classified in this industry) Receipts for contract and repair work	28, 434, 674 ¹ 110, 116 ² 4, 446, 634 272, 483	31, 361, 979 18, 197 2, 492, 850 170, 717
Die-cut paper and paperboard and converted cardboard, aggregate value	34, 981, 754	36, 717, 667
Die-cut paper and paperboard and converted cardboard made in this industry	28, 434, 674	31, 361, 979
Die-cut paper and paperboard and converted cardboard made as secondary products in other industries	6, 547, 080	5, 355, 688
Made in the other industries within the "Converted paper products" sub- group	4, 067, 313 2, 208, 523 271, 244	(3)

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

	Produced in the industry	Produced in other industries within the Converted Paper Products subgroup		Produced in other industries outside the Paper and Allied Products group	Aggregate	1937
Die-cut paper and paperboard, and converted cardboard, total value	\$28, 434, 674	\$4, 067, 313	\$2, 208, 523	1 \$271, 244	\$34, 981, 754	\$36, 717, 667
Bottle caps, paper	8, 588, 818	2, 190, 446			10, 779, 264	8, 919, 446
Cards, cut and designed: Index, library, etc., cards, plain Jacquard cards for textile-fabric machines	2, 841, 084 248, 730	562, 235		93, 012	3, 496, 331 248, 730	5, 275, 523 287, 270
Photograph mats, mounts, folders, etc	2, 648, 696 7, 196, 930 6, 910, 416	50, 601 738, 973 525, 058	2, 208, 523	178, 232	2, 699, 297 8, 114, 135 9, 643, 997	3, 017, 034 11, 948, 448 7, 269, 946

¹ Principally from the "Office furniture" industry.

TABLE 5 .- WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939 AND 1937, AND BY STATES, 1939 ·

	Average number		NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—										
	STATE employed during	January	February	March	April	Мау	June	July	August	September	October	November	December
United States: 1939 1937	4 , 354 5, 046	4, 225 4, 959	4, 221 5, 146	4, 248 5, 305	4, 230 5, 232	4, 312 5, 099	4, 130 5, 020	4, 254 4, 869	4, 252 4, 808	4, 491 4, 933	4, 600 5, 212	4, 604 5, 144	4, 676 4, 831
California	111 875 190 444 78 178	99 863 186 361 75 164	103 851 190 375 83 164	103 860 195 394 75 173	100 885 180 346 74 173	96 878 186 425 78 178	98 869 183 314 79 177	89 857 181 447 77 178	105 845 181 455 78 181	108 862 193 576 74 185	121 921 202 542 79 186	135 888 203 538 79 188	171 920 202 557 83 190
New YorkOhio	463	1,309 435 262 134 65	1, 256 463 259 130 66	1, 290 443 266 130 67	1,304 447 273 130 76	1,309 440 267 130 76	1, 280 432 258 131 76	1, 274 445 263 132 76	1, 261 439 275 134 75	1, 299 471 275 139 75	1, 303 503 281 144 74	1, 339 510 290 147 74	1, 324 531 279 148 74

Merchandise bought and sold in same condition.
 Principally value of paper boxes, cans, envelopes, file folders, glazed and fancy paper, and waxed paper.
 No data.

Table 6.—Expenditures for Plant and Equipment: 1939

	1939
Number of establishments: Total for the industry	121 64
Value of products: Total for the industry	\$33, 263, 907 25, 836, 826
Expenditures for plant and equipment: Total for the industry	631, 858
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.	52, 651 532, 805 46, 402

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 ¹

	1939
Number of establishments	121 120
Prime movers, aggregate: Number Horsepower	24 2, 840
Prime movers, driving generators, total— Number Horsepower	16 2, 622
Steam engines— Number Horsepower Diesel and semi-Diesel engines—	12 2, 197
Number Horsepower Hors	4 425
Prime movers, driving generators, ordinarily idle (included above), horsepower	125
Prime movers not driving generators, total— Number	8 218
Steam engines— Number Horsepower	4 195

Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$3,941,204	\$3, 576, 895
Finished products Materials, supplies, etc	1, 252, 908 2, 688, 296	1, 731, 928 1, 844, 967
End of year, total	4, 200, 231	3, 892, 889
Finished products	1, 280, 975 2, 919, 256	1, 914, 241 1, 978, 648
Value of products for the industry, total	33, 263, 907	34, 043, 743
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand) Value for establishments not reporting inventories	33, 200, 610 63, 297	32, 737, 850 1, 305, 893

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 1—Continued

	1939
Prime movers—Continued. Prime movers not driving generators—Continued. Steam turbines— Number Horsepower	4 23
Generators, kilowatt rating, total	1,785
Generators, driven by— Steam engines, kilowatt rating Diesel and semi-Diesel engines, kilowatt rating Generators, ordinarily idle (included above), kilowatt rating	1, 510 275 120
Electric motors, total: Number Horsepower	3,632 8,569
Driven by purchased energy— Number————————————————————————————————————	2, 963 6, 120
Driven by energy generated in establishments reporting— Number————————————————————————————————————	669 2, 449
Electric energy (kilowatt-hours): Generated in plant	1, 848, 229 422, 550 7, 636, 791

¹ Comparable data for 1929 not available.

WALLPAPER

[A preliminary report for this industry was issued September 21, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in designing patterns and printing paper to cover interior walls and ceilings.

The "hanging paper" used as materials by these manufacturers is made in "Paper and paperboard mills" industry.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1899 TO 1939

CENSUS YEAR	Number of establish- ments ¹	Wage earners (average for the year) ²	Wages	Cost of materials, supplies, fuel, purchased electric energy, and contract work 3	Value of products	Value added by manufac- ture ⁴	Horsepower of prime movers
1939	40	4, 054 4, 543 4, 265 3, 239 3, 734	\$5, 333, 246 5, 455, 289 4, 485, 919 3, 115, 690 3, 993, 949	\$11, 695, 922 11, 919, 748 9, 889, 655 6, 851, 079 9, 150, 312	\$24, 968, 843 26, 771, 995 19, 657, 672 15, 799, 514 20, 194, 112	\$13, 272, 921 14, 852, 247 9, 768, 017 8, 948, 435 11, 043, 800	4, 157 (5) (6) (5) (5)
1929 1927 1925 1923 1921	56 53 · 49 51 43	4, 705 4, 811 5, 069 5, 412 3, 988	5, 731, 932 5, 981, 451 5, 862, 765 6, 221, 266 4, 981, 572	13, 480, 205 14, 612, 415 14, 999, 041 16, 991, 411 16, 336, 110	30, 007, 649 30, 059, 153 30, 069, 005 34, 755, 700 29, 147, 905	16, 527, 444 15, 446, 738 15, 069, 964 17, 764, 289 12, 811, 795	6, 660 6, 962 6, 241 (8)
1919 1914 1909 1908 1904 1899	48 48 45 44 51	4, 262 4, 738 4, 037 3, 913 4, 172	3, 882, 396 2, 703, 175 2, 038, 937 1, 868, 213 2, 074, 138	13, 152, 503 8, 536, 255 7, 623, 351 6, 658, 165 6, 072, 809	23, 047, 901 15, 887, 123 14, 449, 247 12, 636, 580 10, 663, 209	9, 895, 398 7, 350, 868 6, 825, 896 5, 978, 415 4, 590, 400	5, 159 5, 668 5, 194 4, 257

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

ITEM	United States	Illinois	New York	Ohio	Pennsyl- vania	Other States 1
Number of establishments ² Proprietors and firm members	46 7	13 3	11 1	4	9	9
Persons reported by manufacturing establishments, total 3	4,885	1, 675	1, 238	179	1, 185	608
Salaried officers of corporations 3	81	15	24	8	15	19
Manufacturing: Salaried employees 3	417 4,054 324 9	124 1, 472 57 7	117 961 136	16 139 16	1,000 81	71 482 34 2
Salaries and wages, total 3	\$7,654,705	\$2, 457, 364	\$2, 020, 354	\$337, 283	\$1,792,857	\$1,046,847
Salaried officers *	578, 853	129, 866	153, 046	41, 530	84, 501	169, 910
Manufacturing: Salaries 3 Wages Distribution Construction Other	887, 020 5, 333, 246 838, 561 17, 025	284, 421 1, 825, 884 203, 069 14, 124	223, 872 1, 338, 295 305, 141	41, 216 208, 552 45, 985	193, 143 1, 319, 124 196, 089	144, 368 641, 391 88, 277 2, 901
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total.	11, 695, 922	4, 600, 773	2, 403, 351	451, 639	2, 522, 366	1, 717, 793
Materials, supplies, and containers Fuel Purchased electric energy Contract work	11, 265, 164 246, 580 154, 796 29, 382	4, 446, 482 75, 440 61, 234 17, 617	2, 303, 609 65, 760 33, 982	436, 418 6, 708 8, 513	2, 431, 007 62, 177 27, 339 1, 843	1, 647, 648 36, 495 23, 728 9, 922
Value of products	24, 968, 843 13, 272, 921	9, 153, 072 4, 552, 299	5, 914, 474 3, 511, 123	950, 561 498, 922	5, 485, 273 2, 962, 907	3, 465, 463 1, 747, 670

¹ See GENERAL EXPLANATIONS—Definition of establishment.
2 See GENERAL EXPLANATIONS—Wage earners and wages.
3 Figures for years prior to 1935 do not include cost of contract work.
4 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
5 Not called for on schedule.
6 Data not available.

¹ Connecticut, 1 establishment; Indiana, 2; Massachusetts, 2; New Jersey, 2; Wisconsin, 2.
1 See General Explanations—Definition of establishment.
8 See General Explanations—Persons engaged—general classification.
8 See General Explanations—Wage earners and wages.
9 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.

CENSUS OF MANUFACTURES: 1939

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	. 1937
Wallpaper industry, all products, total value	\$24, 968, 843	\$26, 771, 995
Wallpaper: Number of rolls. Value Other products (not classified in this industry) Receipts for contract and repair work.	372, 649, 686 \$24, 953, 799 1 \$10, 569 \$4, 475	411, 186, 355 \$26, 771, 546 \$449

¹ Value of job printing.

TABLE 4.—PRODUCTS, BY KIND, QUANTITY, AND VALUE, FOR THE UNITED STATES: 1939 AND 1937 All detail production figures available are included in table 3.

Table 5.—WAGE EARNERS ENGAGED IN MANUFACTURING, BY MONTHS, FOR THE UNITED STATES, 1939, 1937, AND 1929, AND BY STATES, 1939

	Average number		NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH-										
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939 1937 1929	4, 054 4, 543 4, 705	4, 616 5, 164 5, 209	4, 308 4, 297 4, 709	4,060 4,521 4,446	3, 848 4, 630 4, 445	3, 695 4, 401 4, 417	3, 694 4, 277 4, 228	3, 226 4, 002 4, 077	3, 281 3, 834 4, 223	3,822 4,245 4,811	4, 382 4, 776 5, 112	4, 620 5, 144 5, 354	5, 095 5, 229 5, 427
Illinois_ New York_ Ohio_ Pennsylvania	1,472 961 139 1,000	1, 638 1, 147 154 1, 168	1, 527 1, 029 147 1, 128	1,454 964 147 1,052	1,423 851 136 1,013	1, 290 811 135 1, 016	. 1,218 901 128 1,001	1, 157 698 134 775	1,329 710 101 719	1, 511 919 144 817	1,545 1,097 146 1,061	1,670 1,152 147 1,094	1, 907 1, 255 151 1, 155

	1939
Number of establishments: Total for the industry Reporting expenditures for plant and equipment.	46 34
Value of products: Total for the industry	\$24, 968, 843 21, 113, 494
Expenditures for plant and equipment: Total for the industry	231, 698
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land. Expenditures unclassified.	82, 285 113, 018 35, 987 408

Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$4, 809, 022	\$4, 349, 033
Finished products	3, 171, 133 1, 637, 889	2, 781, 011 1, 568, 022
End of year, total	4, 882, 653	5, 343, 705
Finished products	3, 196, 391 1, 686, 262	3, 276, 539 2, 067, 166
Value of products for the industry, total	24, 968, 843	26, 771, 995
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	24, 968, 843	25, 972, 690 799, 305

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 and 1929

1.				1939	1929
Number of e	establishments establishments	reporting power	equipment	46 46	56 56

Table 6.—Expenditures for Plant and Equipment: 1939 | Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 and 1929—Continued

	1939	1929
Prime movers, aggregate:		
Number	- 28	1 .
Horsepower	4, 157	6,6
Prime movers, driving generators, total—		
Number	18	1.
Horsepower	3, 477	16,6
Steam engines-		
Number	16	1;
Horsepower	3, 105	1 5, 8
Steam furnings—	1	1
Number	1	1
Horsepower. Diesel and semi-Diesel engines—	350	18:
Diesei and semi-Diesei engines—	١ .	
Number Horsepower	1 22	
Trotsebower	22	
Prime movers, driving generators, ordinarily idle (in-	· ·	
cluded above), horsepower	50	1)
Prime movers not driving generators, total—		
Number	10	11
Horsepower	680	(2)
Steam engines—		ll i
Number	10	
Horsepower	680	}
	1	ľ
Jenerators, kilowatt rating, total	2, 347	3, 8
Generators, driven by-		
Steam engines, kilowatt rating	2,032	h
Steam turbines, kilowatt rating	300	[} (¥)
Diegel and comi-i hosel angines bilagraft rating	15	J .
Generators, ordinarily idle (included above), kilowatt		
rating	35	(3)
Electric motors, total:		
Number		
Horsepower	1,856	1, 2
Driven by purchased energy—	10, 694	9, 4
Number		
Horsepower	1, 437	8
Driven by energy generated in establishments report-	8, 424	6.0
ing—	-,	-,
Number		
Horsepower	419	3
Electric energy (kilowatt-hours):	2, 270	3, 39
Generated in plant	896, 635	(3)
Purchased	8, 714, 547	5, 008, 1

Includes data for prime movers not driving generators.
 Not called for on schedule.
 Data not available.

CONVERTED PAPER PRODUCTS NOT ELSEWHERE CLASSIFIED

[A preliminary report for this industry was issued December 23, 1940]

Description of the industry.—This industry, as classified for census purposes, embraces establishments primarily engaged in the manufacture, from purchased stock, of crepe paper, cups, dishes, etc., egg-case fillers. paper napkins and towels, papeteries, playing cards, paper patterns, tags, seals, soda straws, tablets, toilet paper, facial tissue, etc.

Statistics for prior census years.—At the census for 1939, several changes were made in the converted paper products industry classifications, and returns for establishments formerly classified as "Paper goods not elsewhere classified" were transferred to other industry classifications, such as "Coated and glazed paper," "Fiber cans, tubes, and similar products," and "Die-cut paper and paperboard, and converted cardboard." The data for establishments classified in other industries were deducted from the "Paper goods not elsewhere classified" industry as constituted for 1937, and form the respective new classifications for comparison with 1939. Likewise, printed, lithographed, stencil, and em-

broidery paper patterns were, prior to 1939, included in the "Printing and publishing" industry but are now included in this industry. The product data for 1937 have been adjusted accordingly. No revisions were made in the statistics for years prior to 1937 for any of the product classifications mentioned above. Therefore, comparable figures are not available for prior years.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Num- ber of estab- lish- ments 1	Wage earners (aver- age for the year);	Wages	Cost of ma- terials, sup- plies, fuel, purchased electric en- ergy, and contract work		Value added by manu- facture ³	Horse- power of prime movers
1939	384 378	21, 775 22, 898	\$22, 184, 555 23, 479, 483		\$161,305,558 166,587,043	\$77, 930, 477 79, 022, 767	8, 839 (⁵)

See GENERAL EXPLANATIONS—Definition of establishment.
 See GENERAL EXPLANATIONS—Wage earners and wages.
 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
 No comparable figures for years prior to 1937.
 Not called for on schedule.

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments]

ITEM	United	California	Connecticut	Illinois	Indiana	Massa-	Michigan
TEM	States	Camornia	Connecticat			chusetts	
Number of establishments ¹	384 146	20 10	9	30 19	17 3	54 13	16 11
Persons reported by manufacturing establishments, total 2	28, 301	505	715	1, 758	1, 036	5, 094	2, 510
Salaried officers of corporations 2	539	13	7	. 34	34	99	20
Manufacturing: Salaried employees ³ Wage earners (average for the year) ³ Distribution. Construction. Other.	2, 791 21, 775 2, 983 188 25	65 347 80	62 560 58 28	95 1,410 208 10 1	139 819 37 7	500 3, 568 882 27 18	267 1, 947 255 21
Salaries and wages, total 2	\$36, 827, 482	\$701, 224	\$926, 532	\$2, 422, 786	\$1, 193, 843	\$7,066,652	\$3, 430, 688
Salaried officers 2	22, 184, 555 5, 571, 543 318, 448	59, 800 123, 525 385, 668 132, 231	56, 072 114, 037 606, 052 107, 235 43, 136	274, 041 218, 770 1, 462, 620 446, 164 19, 675 1, 516	211, 078 203, 815 678, 762 91, 740 8, 448	753, 740 927, 086 3, 921, 065 1, 380, 919 37, 754 46, 088	189, 480 467, 426 2, 326, 632 416, 875 30, 275
OtherCost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	52, 559 83, 375, 081	1, 606, 162	1, 244, 835	4, 668, 948	2, 064, 739	11, 741, 270	6, 262, 227
Materials, supplies, and containers	81, 830, 783 564, 756 799, 749 179, 793	1, 575, 489 949 17, 214 12, 510	1, 201, 152 16, 965 26, 718	4, 517, 445 21, 900 61, 407 68, 196	1, 973, 636 40, 423 50, 630	11, 475, 865 124, 397 100, 367 40, 641	6, 118, 049 72, 317 71, 177 684
Value of products	161, 305, 558 77, 930, 477	3, 794, 475 2, 188, 313	3, 386, 114 2, 141, 279	12, 896, 104 8, 227, 156	3, 889, 401 1, 824, 662	23, 001, 985 11, 260, 715	12, 746, 264 6, 484, 907

Table 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—Continued

		,	,			,	
ITEM	Missouri	New Jersey	New York	Ohio	Pennsyl- vania	Wisconsin	Other States
Number of establishments ¹	8 8	17 7	121 58	13 3	27 5	15	37 9
Persons reported by manufacturing establishments, total 2	1, 141	1, 418	5, 523	1, 452	2,910	1, 583	2, 656
Salaried officers of corporations ² Manufacturing:	13	37	138	15	56	21	52
Naturaceuring: Salaried employees *. Wage earners (average for the year) *	133 948 35 12	96 1, 030 253 2	541 4, 191 581 68 4	166 1, 102 169	365 2,344 137 8	102 1, 291 163 4 2	260 2, 218 125 1
Salaries and wages, total 2	\$1, 427, 183	\$1, 955, 019	\$6, 911, 970	\$2, 224, 468	\$3, 489, 884	\$2, 074, 432	\$3, 002, 801
Salaried officers ² Manufacturing:	112, 780	252, 398	926, 357	127, 689	452, 901	100, 990	275, 812
Natification Salaries 2 Salaries 2 Wages Distribution Construction Other	281, 994 864, 215 148, 214 19, 980	196, 936 1, 049, 044 452, 172 4, 469	885, 656 3, 939, 728 1, 031, 362 124, 824 4, 043	349, 290 1, 384, 891 362, 598	531, 853 2, 146, 536 344, 504 14, 090	166, 695 1, 473, 944 322, 370 9, 521 912	440, 156 1, 945, 398 335, 159 6, 276
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	3, 272, 259	4, 162, 805	14, 925, 022	5, 648, 127	6, 703, 048	12, 247, 110	8, 828, 529
Materials, supplies, and containers	3, 166, 596 41, 002 62, 160 2, 501	4, 085, 887 37, 041 39, 877	14, 682, 934 55, 406 153, 340 33, 342	5, 577, 604 44, 993 25, 484 46	6, 570, 979 39, 114 92, 348 607	12, 152, 671 40, 219 43, 004 11, 216	8, 732, 476 30, 030 56, 023 10, 000
Value of products	5, 464, 708 2, 192, 449	7, 348, 030 3, 185, 225	30, 419, 405 15, 494, 383	11, 428, 142 5, 780, 015	13, 226, 815 6, 523, 767	17, 617, 982 5, 370, 872	16, 086, 103 7, 257, 574

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 AND 1937

	1939	1937
Converted Paper Products Not Elsewhere Classified industry, all products, total value.	\$161, 305, 558	\$166, 587, 043
Converted paper products made in this industry	134, 970, 923 1 745, 702 2 25, 241, 557 347, 376	143, 445, 045 507, 318 22, 167, 816 466, 864
Converted paper products, aggregate value	227, 517, 949	216, 175, 312
Converted paper products made in this industry	134, 970, 923 92, 547, 026	143, 445, 045 72, 730, 267
Made in the industries within the "Converted paper products" subgroup Made in the "Paper and paperboard mills" industry Made in other industries outside the Paper and Allied Products group	14, 788, 320 63, 327, 994 14, 430, 712	(3)

¹ See GENERAL EXPLANATIONS—Definition of establishment.
1 See GENERAL EXPLANATIONS—Persons engaged—general classification.
1 See GENERAL EXPLANATIONS—Wage earners and wages.
4 Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
5 District of Columbia, 1 establishment; Georgia, 4; Iowa, 2; Kentucky, 1; Louisiana, 1; Maine, 1; Maryland, 2; Minnesota, 3; Nebraska, 1; New Hampshire, 1; North Carolina, 1; Oregon, 2; Rhode Island, 1; South Carolina, 1; Tennessee, 3; Texas, 3; Vermont, 1; Virginia, 4; Washington, 4.

Principally value of merchandise bought and sold in same condition.
 Principally value of paper bags, paper boxes, labels and tags (printed), loose-leaf binders and files, sanitary napkins, and coated and glazed paper.
 No data.

TABLE 4.—PRODUCTS, BY KIND AND VALUE, FOR THE UNITED STATES: 1939 AND 1937

	·		1939		*	
	Produced in the industry	Produced in other industries within the Converted Paper Products sub- group	Produced in the Paper and Paperboard Mills industry	Produced in other industries outside the Paper and Allied Products group	Aggregate	1937
Total value	\$134, 970, 923	\$14, 788, 320	\$63, 327, 994	1 \$14, 430, 712	\$227, 517, 949	\$216, 175, 312
Coin wrappersConfetti	376, 988 37, 878	50			522, 616 37, 878	528, 968 (2)
Crepe paper		371, 725	54, 960		2, 975, 643	3, 174, 623
Cups, paper, total	16, 125, 180	1, 287, 810			17, 412, 990	13, 641, 932
Round Conical or wedge-shaped, nested Flat Dishes, spoons, etc., paper Egg-case fillers and flats Facial tissue and handkerchiefs File folders Labels, paper, unprinted Napkins, paper	701, 335 1, 675, 703 588, 408 3, 601, 197 1, 637, 743 521, 671	713, 704 264, 614 309, 492 1, 138, 458 277, 235 946, 349 203, 038 496, 652	860 467		12, 932, 773 3, 469, 390 1, 010, 827 2, 848, 256 1, 691, 189 12, 118, 323 2, 584, 092 724, 709 10, 420, 107	11, 401, 951 (3) 2, 239, 981 3, 040, 637 1, 917, 122 8, 776, 078 1, 402, 547 (3) 11, 029, 608
Papeteries, total		247, 480	2, 361	500, 295	10, 496, 389	4 9, 862, 232
UnprintedPrinted	8, 645, 505 1, 100, 748	212, 338 35, 142	2, 361	500, 295	9, 360, 499 1, 135, 890	6, 718, 169 3, 144, 063
Patterns, paper, total	5, 078, 762	45, 399		5, 122, 388	10, 246, 549	9, 970, 773
Printed and lithographed	3 916 795			1, 081, 739	3, 700, 522 4, 998, 534 1, 547, 493 2, 780, 562	3, 199, 064 4, 427, 485 2, 344, 224 3, 188, 022
Tablets, total		939, 029	687, 544		10, 569, 940	10, 224, 286
Book News		160, 549 52, 318 598, 277 127, 885	25, 957		2, 045, 401 2, 009, 592 5, 684, 459 830, 488	1, 659, 949 2, 270, 313 5, 574, 529 719, 495
Tags (paper and paperboard), unprinted Toilet paper Towels, paper Other converted paper and paperboard products ⁵	12, 308, 158 4, 309, 221	155, 282 171, 194 293, 825 7, 864, 936	26, 537, 268 10, 749, 353 14, 366, 964	195, 074 	1, 900, 881 39, 016, 620 15, 352, 399 85, 818, 806	1, 695, 590 35, 263, 062 12, 141, 940 90, 317, 892

¹ Principally from "Printing, publishing, and allied industries," "Miscellaneous industries," "Machinery (except electrical)," "Chemicals and allied products," and "Furniture and finished lumber products" groups.

2 Not shown separately to avoid disclosing data for individual establishments; data included in "Other converted paper and paperboard products."

3 Not called for on schedule.

4 Includes other stationery.

5 Cigarette paper, lace paper, playing cards, and miscellaneous paper products for all years; in addition, seals for 1939; confetti for 1937.

Table 5.-Wage Earners engaged in Manufacturing, by Months, for the united states, 1939 AND 1937, AND BY STATES, 1939

	Average		NUM	BER RECEI	VING PAY I	DURING NO	RMAL PAY	ROLL PER	OD ENDER	NEAREST 15	TH OF MO	NTH-	
STATE	employed during year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939 1937	21, 775 22, 898	20, 319 22, 234	20, 832 22, 278	21, 208 22, 817	20, 992 23, 128	21, 280 23, 265	21, 428 23, 603	21, 672 23, 704	21, 675 23, 355	22, 848 23, 375	23, 422 23, 144	23, 073 22, 372	22, 552 21, 497
California	560	276 560 293 1,273 782	270 562 334 1,285 791	268 541 359 1, 287 772	255 555 355 1, 296 737	314 571 344 1,334 804	378 573 352 1,386 837	394 553 336 1,453 855	422 554 363 1, 533 834	404 545 367 1, 591 834	416 551 358 1,568 880	398 584 340 1,529 842	365 575 307 1, 389 855
Massachusetts Michigan Minnesota Missouri New Jersey	1, 947 114 948	3, 396 1, 971 114 962 944	3,447 2,013 115 971 1,015	3, 453 2, 058 113 977 1, 043	3, 521 1, 846 113 934 1, 049	3,503 1,797 111 916 1,059	3,476 1,650 111 933 1,084	3, 476 1, 638 115 954 1, 048	3, 461 1, 607 115 968 1, 026	3, 646 2, 210 114 917 1, 020	3, 879 2, 305 115 941 983	3,800 2,086 119 946 1,045	3, 752 2, 188 118 955 1, 043
New YorkOhio Pennsylvania Tennessee	1, 102 2, 344	3,816 1,117 1,974 134	3, 963 1, 132 2, 086 132	4, 215 1, 067 2, 137 168	4, 156 1, 062 2, 165 156	4, 199 1, 044 2, 386 157	4, 132 1, 054 2, 580 152	4, 182 1, 063 2, 645 182	4, 109 1, 066 2, 501 188	4, 296 1, 083 2, 559 186	4, 519 1, 176 2, 376 171	4, 427 1, 172 2, 418 168	4, 279 1, 187 2, 297 187
TexasVirginiaWashingtonWisconsin	78 124 468 1, 291	66 116 457 1, 219	84 118 444 1,229	79 126 448 1,210	81 126 445 1,218	85 125 463 1,189	86 121 459 1,218	86 138 438 1,252	90 128 469 1, 298	85 131 490 1,367	85 117 489 1,423	56 118 514 1,463	58 120 503 1,401

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939 |

	1939
Number of establishments: Total for the industry Reporting expenditures for plant and equipment	384 240
Value of products: Total for the industry	\$161, 305, 558 145, 059, 120
Expenditures for plant and equipment: Total for the industry	2, 768, 630
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land. Expenditures unclassified.	515, 898 2, 056, 095 186, 635 10, 002

Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1	
	1939	1937
		
Inventories: Beginning of year, total	\$23, 460, 071	\$21, 524, 439
Finished products	10, 090, 754 13, 369, 317	8, 985, 031 12, 539, 408
End of year, total	26, 476, 995	26, 705, 399
Finished products	10, 829, 130 15, 647, 865	11, 417, 654 15, 287, 745
Value of products for the industry, total	161, 305, 558	166, 587, 043
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	160, 486, 361 819, 197	158, 342, 468 8, 244, 575

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 19391

	1939
Number of establishments	384 383
Prime movers, aggregate: Number	38
Prime movers, driving generators, total—	8,839
Number Horsepower	7, 859

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939—Continued

	1939
Prime movers—Continued.	
Prime movers, driving generators—Continued.	
Steam engines— Number	16
Horsepower	6,000
Steam turbines—	-,
Number	2
Horsepower Diesel and semi-Diesel engines—	169
Number	3
HorsepowerOther internal-combustion engines?—	920
Other internal-combustion engines ² — Number	1
Horsenower	20
Horsepower Hydroturbines and water wheels—	
Number	6
Horsepower	750
Prime movers, driving generators, ordinarily idle (included above),	
horsepower	1, 195
Datas a surface and addition was surfaced to the last	
Prime movers not driving generators, total— Number	10
Horsepower	980
	
Steam engines— Number	1
Horsepower	100
HorsepowerOther internal-combustion engines 2—	
Number	3 50
Horsepower	uu
Number	6
Horsepower	830
Prime movers not driving generators, ordinarily idle (included above), horsepower	40
to the control of the	
Generators, kilowatt rating, total	5, 280
Generators driven by	
Generators, driven by— Steam engines, kilowatt rating	4,045
Steam engines, kilowatt rating Steam turbines, kilowatt rating	86
Diesel and semi-Diesel engines, kilowatt rating	690
Other internal-combustion engines, kilowatt rating	10 449
Hydroturbines and water wheels, kilowattrating	875
Electric motors, total:	15 405
Number Horsepower	15, 425 43, 245
[-	
Driven by purchased energy—	10 410
Number Horsepower	12, 412 33, 207
Driven by energy generated in establishments reporting—	•
Number '	3, 013
Horsepower	10, 038
Electric energy (kilowatt-hours):	
Generated in plant	9, 064, 391
Purchased	44, 936, 661

¹ Comparable data for 1929 not available.

² Gas, gasoline, etc.

PULP GOODS (PRESSED, MOLDED)

[A preliminary report for this industry was issued October 31, 1940]

Description of the industry.—This industry, as constituted for census purposes, embraces establishments primarily engaged in the manufacture of all kinds of pressed and molded pulp goods, such as pulp plates, utensils, and all papier-mâché articles except statuary.

Statistics for prior census years.—At the census for 1939, "Pulp goods (pressed, molded)" was established as a separate industry. Returns for establishments formerly classified in the "Synthetic-resin, celluloseplastic, vulcanized-fiber, and molded and pressed pulp fabricated articles, not elsewhere classified" industry were deducted from the statistics for that industry for 1937 and form the new industry classification, "Pulp goods (pressed, molded)" for comparison with 1939. No revisions were made, however, in the statistics for years prior to 1937 and therefore comparable statistics for earlier years are not available.

TABLE 1.—SUMMARY FOR THE UNITED STATES: 1939 AND 1937

CENSUS YEAR	Num- ber of estab- lish- ments 1	Wage earners (aver- age for the year) 2	Wages	Cost of ma- terials, sup- plies, fuel, purchased electric en- ergy, and contract work	Value of products	Value added by manu- facture 3	Horse- power of prime movers
1939	14	. 701	\$818, 699	\$1, 522, 772	\$3, 826, 393	\$2, 303, 621	2, 070
1937 4	10	819	873, 095	1, 474, 564	4, 041, 554	2, 566, 990	(5)

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939 [See GENERAL EXPLANATIONS-Disclosure of data for individual establishments]

ITEM	United States	New York	Other States 1
Number of establishments 1 Proprietors and firm members	14 4	4 1	10 3
Persons reported by manufacturing establishments, total:	856	173	683
Salaried officers of corporations 3 Manufacturing:	18	3	15
Salaried employees : Wage earners (average for the year) '. Distribution	75 701 62	6 164	69 537 62
Construction Other			
Salaries and wages, total 3	\$1,080,929	\$205, 561	\$875, 368
Salaried officers:	86, 531	30, 921	55, 610
Manulacturing: Salaries: Wages Vages	103, 494 818, 699	18, 347 156, 293	85, 147 662, 406 72, 205
Distribution Construction Other	72, 205		12, 200

TABLE 2.—GENERAL STATISTICS IN DETAIL BY STATES: 1939—

ITEM	United States	New York	Other States 1
Cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, total	1, 522, 772	265, 774	1, 256, 998
	1, 225, 994	224, 798	1, 001, 196
	116, 158	30, 789	85, 369
	180, 620	10, 187	170, 433
Value of products	3, 826, 393	700, 973	3, 125, 420
	2, 303, 621	435, 199	1, 868, 422

TABLE 3.—VALUE OF PRODUCTS FOR THE UNITED STATES: 1939 and 1937

1939	1937
\$3, 826, 393	\$4, 041, 554
3, 587, 393 1 239, 000	4, 041, 554
3, 746, 839	4, 765, 341
3, 587, 393	4, 041, 554
² 159, 446	723, 787
	\$3, 826, 393 3, 587, 393 1 239, 000 3, 746, 839 3, 587, 393

Principally value of radio replacement parts and toys.
 From "Pulp mills," "Planing mills not operated in conjunction with sawmills," and "Radios, radio tubes, and phonographs" industries.

Table 4.—Products, by Kind, Quantity, and Value, for the United States: 1939 and 1937

No detailed production figures are collected for this industry.

TABLE 5 .- WAGE EARNERS ENGAGED IN MANUFACTURING, BY Montes, for the United States, 1939 and 1937, and for NEW YORK, 1939

[See GENERAL EXPLANATIONS—Disclosure of data for individual establishments[

	number ed during	NUM	NUMBER RECEIVING PAY DURING NORMAL PAY-ROLL PERIOD ENDED NEAREST 15TH OF MONTH—										
STATE	Average nu employed year	January	February	March	April	May	June	July	August	September	October	November	December
United States: 1939- 1937-	701 819	642 792	679 743	707 818	658 822	635 826	650 842	652 857	670 836	722 945	778 907	817 700	798 738
New York_	164	194	193	209	162	174	150	125	121	148	154	164	171

¹ See GENERAL EXPLANATIONS—Definition of establishment.
2 See GENERAL EXPLANATIONS—Wage earners and wages.
3 Value of products less cost of materials, supplies, fuel, purchased electric energy, and contract work. See GENERAL EXPLANATIONS—Value added by manufacture.
4 No comparable figures for years prior to 1937.
5 Not called for on schedule.

¹ Illinois, 1 establishment; Maine, 1; Michigan, 2; New Hampshire, 1; New Jersey, 2; Ohio, 1; Wisconsin, 2.
² See General Explanations—Definition of establishment.
² See General Explanations—Persons engaged—general classification.
⁴ See General Explanations—Wage earners and wages.
⁵ Value of products less cost of materials, supplies, containers, fuel, purchased electric energy, and contract work. See General Explanations—Value added by manufacture.

TABLE 6.—EXPENDITURES FOR PLANT AND EQUIPMENT: 1939 |

	1939
Number of establishments: Total for the industry	14 8
Value of products: Total for the industry	\$3, 826, 393 3, 080, 597
Expenditures for plant and equipment: Total for the industry	73, 565
Expenditures for new construction or major alterations of buildings and other fixed plant and structures. Expenditures for new machinery and operating equipment. Expenditures for plant and equipment acquired in a "used" condition from other owners and expenditures for land.	3, 487 69, 828 250

Table 7.—Value of Inventories of Materials and Finished Products, and Value of Products: 1939 and 1937

	1939	1937
Inventories: Beginning of year, total	\$671, 683	\$403, 210
Finished products	439, 750 231, 933 551, 333	202, 821 200, 389 511, 572
Finished products	282, 862 268, 471 3, 826, 393	314, 239 197, 333 4, 041, 554
Value for establishments reporting inventories (includes value of products of establishments reporting no inventories on hand)	3, 826, 393	4,041,554

Table 8.—Prime Movers, Motors, Generators, and Electric Energy: 1939 1

	1939
Number of establishments Number of establishments reporting power equipment.	14 14
Prime movers, aggregate: Number Horsepower	2, 070
Prime movers, driving generators, total— Number————————————————————————————————————	3 2, 070
Steam engines— Number Horsepower Diesel and semi-Diesel engines—	2, 025
Number Horsepower	1 45
Generators, kilowatt rating, total	1, 384
Generators, driven by— Steam engines, kilowatt rating Diesel and semi-Diesel engines, kilowatt rating	1, 350 34
Electric motors, total: Number Horsepower	550 5, 161
Driven by purchased energy— Number Horsepower————————————————————————————————————	425 3, 921
Number Horsepower Hors	125 1,240
Electric energy (kilowatt-hours): Generated in plant	1, 358, 798 43, 586, 522

¹ Comparable data for 1929 not available.